

Tong A W; Stone M J  
Cancer Immunology Research Laboratory, Baylor-Sammons Cancer Center,  
Baylor University Medical Center, Dallas, Texas 75246, USA.  
Leukemia & lymphoma (SWITZERLAND) Mar 1996, 21 (1-2) p1-8, ISSN  
1042-8194 Journal Code: 9007422

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

CD40 is a 48 kDa glycosylated phosphoprotein that is a member of the tumor necrosis factor receptor (TNF-R) superfamily. CD40 was originally identified in B lymphocytes, and is found on monocytes, dendritic cells, some carcinoma cell lines, and the thymic epithelium. CD40 is expressed on normal pre-B through mature B stages of differentiation. For normal B cells, the cross-linking of CD40 induces cell cycle progression, long-term proliferation in vitro, IgE secretion, increased adhesion molecule (LFA-1) expression, and low level IL-6 secretion. The natural ligand of CD40 (CD40L, gp39, or T-BAM, for T-B cell activating molecule) was recently identified as an inducible molecule expressed transitionally on activated T cells. Although originally believed to be absent in normal and malignant plasma cells, CD40 has been demonstrated on the majority of myeloma cell lines and myeloma cells from plasma cell dyscrasia (PCD) patient specimens tested. CD40 activation modulated myeloma cell proliferation and clonogenicity in vitro, suggesting that the CD40 pathway is active in myeloma cell growth. For the IL-6 dependent cell line ANBL-6, CD40 activation was associated with autocrine IL-6 production. However, the IL-6 pathway does not appear to play a predominant role in CD40 activation of non-IL-6-dependent MM cell lines and patient primary bone marrow cultures. The possible pathophysiologic role of the CD40 receptor in human multiple myeloma is discussed. (83 Refs.)

Record Date Created: 19970325

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6/7/23 (Item 7 from file: 154)  
DIALOG(R)File 154:MEDLINE(R)

09369928 97244166 PMID: 9088975

CD40 ligation counteracts Fas-induced apoptosis of human dendritic cells.

Bjorck P; Banchereau J; Flores-Romo L

Scherling-Plough Laboratory for Immunological Research, Dardilly, France.

International immunology (ENGLAND) Mar 1997, 9 (3) p365-72,

ISSN 0953-8178 Journal Code: 8916182

Document type: Journal Article

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Dendritic cells (DC) are cells of the hematopoietic system specialized in capturing antigens and initiating T cell-mediated immune responses. We show here that human DC generated in vitro by culturing CD34+ cord blood progenitor cells in granulocyte macrophage colony stimulating factor plus tumor necrosis factor-alpha express the Fas antigen (APO-1, CD95) and undergo apoptosis upon triggering of Fas by mAb. However, only a proportion of the cells die in response to Fas ligation, an observation that may be related to the virtual absence of the bcl-2 protein in about half of the cells. Ligation of DC CD40 by culture on CD40L-transfected fibroblastic cells up-regulates the expression of bcl-2 and, concomitantly, renders DC virtually resistant to Fas-induced apoptosis. Parallel experiments with mature, interdigitating dendritic cells (IDC) isolated from tonsils revealed that IDC express Fas but do not enter into apoptosis following Fas ligation, a finding that may be explained by their high levels of bcl-2. Thus, upon encountering antigen-specific T cells, DC become resistant to Fas-induced apoptosis, as a consequence of CD40 ligation and possibly by mechanisms associated to the up-regulation of bcl-2 protein expression.

Record Date Created: 19971016

7/16 (Item 10 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)

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123110095 CA: 123(9)110095a JOURNAL  
Stimulation of germinal center B lymphocyte proliferation by an FDC-like  
cell line, HK  
AUTHOR(S): Kim, Han-Soo; Zhang, Xinhong; Klyushnenkova, Elena; Choi, Yong  
Sung  
LOCATION: Lab. Cell. Immunol., Alton Ochsner Med. Foundation, New Orleans  
LA, 70121, USA  
JOURNAL: J. Immunol. DATE: 1995 VOLUME: 155 NUMBER: 3 PAGES: 1101-9  
CODEN: JOIMA3 ISSN: 0022-1767 LANGUAGE: English  
SECTION:  
CA215010 Immunochemistry  
IDENTIFIERS: B cell proliferation follicular dendritic cell  
DESCRIPTORS:  
Animal cell line...  
HK; stimulation of germinal center B lymphocyte proliferation by an  
follicular dendritic cell-like cell line, HK  
Antigens, CD38... Apoptosis... Leukocyte, dendritic cell... Lymph  
node, germinal center... Lymphocyte, B-cell... Lymphokines and  
Cytokines, interleukin 4...  
stimulation of germinal center B lymphocyte proliferation by an  
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Antibodies...  
to IgM or CD40; stimulation of germinal center B lymphocyte  
proliferation by an follicular dendritic cell-like cell line, HK

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6/7/9 (Item 3 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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131270712 CA: 131(20)270712t JOURNAL  
Anti-CD40 antibody enhances responses to polysaccharide without mimicking  
T cell help  
AUTHOR(S): Garcia de Vinuesa, Carola; MacLennan, Ian C. M.; Holman, Mary;  
Klaus, Gerry G. B.  
LOCATION: Medical Research Council Center Immune Regulation, Univ.  
Birmingham, Birmingham, UK, B15 2TT  
JOURNAL: Eur. J. Immunol. DATE: 1999 VOLUME: 29 NUMBER: 10 PAGES:  
3216-3224 CODEN: EJIMAF ISSN: 0014-2980 LANGUAGE: English PUBLISHER:  
Wiley-VCH Verlag GmbH  
SECTION:

*DR180. J6*  
*MW*

6/7/6 (Item 3 from file: 73)  
DIALOG(R)File 73:EMBASE  
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07675635 EMBASE No: 1999150693  
Dendritic cell secretion of IL-15 is induced by recombinant huCD40LT and  
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Kuniyoshi J.S.; Kuniyoshi C.J.; Lim A.M.; Wang F.Y.; Bade E.R.; Lau R.;  
Thomas E.K.; Weber J.S.  
J.S. Kuniyoshi, Department of Molecular Microbiology, Univ. of S.  
California Sch. of Med., Los Angeles, CA 90033 United States  
Cellular Immunology ( CELL. IMMUNOL. ) (United States) 10 APR 1999,  
193/1 (48-58)  
CODEN: CLIMB ISSN: 0008-8749  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 47

Dendritic cells (DC) are professional antigen-presenting cells  
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Stimulation of CD40 on dendritic cells by its ligands and anti-  
CD40 antibodies induces maturation and enhances DC stimulatory

Tong A W; Stone M J  
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*Alu 1644*  
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*09773866*

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*QA180.154*

6/7/23 (Item 7 from file: 154)  
DIALOG(R)File 154:MEDLINE(R)

09369928 97244166 PMID: 9088975

CD40 ligation counteracts Fas-induced apoptosis of human dendritic cells.  
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Antibodies...  
to IgM or CD40; stimulation of germinal center B lymphocyte  
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*Ref 1644*  
*8/26*  
*09773866*

*NPL*

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LOCATION: Medical Research Council Center Immune Regulation, Univ.  
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DIALOG(R)File 73:EMBASE  
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Dendritic cell secretion of IL-15 is induced by recombinant huCD40LT and  
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Cellular Immunology ( CELL. IMMUNOL. ) (United States) 10 APR 1999,  
193/1 (48-58)  
CODEN: CLIMB ISSN: 0008-8749  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 47

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J.S. Kuniyoshi, Department of Molecular Microbiology, Univ. of S.  
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Cellular Immunology ( CELL. IMMUNOL. ) (United States) 10 APR 1999,  
193/1 (48-58)  
CODEN: CLIMB ISSN: 0008-8749  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 47

Dendritic cells (DC) are professional antigen-presenting cells  
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Stimulation of CD40 on dendritic cells by its ligands and anti-  
CD40 antibodies induces maturation and enhances DC stimulatory

4/7/51 (Item 5 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

10488448 20021827 PMID: 10553056

Generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-alpha, IL-1 beta, and **agonistic anti-CD40** monoclonal antibody.

Yamada N; Katz S I

Dermatology Branch, National Cancer Institute, Bethesda, MD 20892, USA.

Journal of immunology (Baltimore, Md. : 1950) (UNITED STATES) Nov 15 1999, 163 (10) p5331-7, ISSN 0022-1767 Journal Code: 2985117R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

We established a model system to generate mature dendritic cells (DC) from a GM-CSF-dependent cell line, XS52, which had been isolated from the epidermis of newborn BALB/c mice. Screening of various soluble factors revealed that IL-4 induces phenotypic maturation of XS52 (as evaluated by enhanced expression of class II, CD40, CD80, CD86, CD11c, and loss of expression of CD14) in a time-dependent manner. The addition of TNF-alpha, IL-1 beta, and **agonistic anti-CD40** mAb further enhanced expression of these maturation markers. Consistent with their phenotypic maturation, these cells (termed XS-DC) exhibited potent Ag-presenting capacity to both naive and primed T cells. In addition, injection of hapten-conjugated XS-DC induced contact hypersensitivity in vivo, suggesting their potential as tools for vaccination. Expression of CD14 by the starting cell population, the requirement for GM-CSF and IL-4, and the relatively long culture period are the common characteristics shared between our cells and human monocyte-derived DC, whose analogues in mice have not been identified. Because large numbers of skin-associated mature DC devoid of other cell lineages are easily obtained, this model system may facilitate the study of molecular events associated with maturation of DC and the use of DC for immunization.

Record Date Created: 19991202

4/7/46 (Item 15 from file: 73)  
DIALOG(R) File 73:EMBASE  
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07735425 EMBASE No: 1999217763

CD40 activation boosts T cell immunity in vivo by enhancing T cell clonal expansion and delaying peripheral T cell deletion

Maxwell J.R.; Campbell J.D.; Kim C.H.; Vella A.T.

Dr. A.T. Vella, 220 Nash Hall, Department of Microbiology, Oregon State University, Corvallis, OR 97331 United States

AUTHOR EMAIL: vellaa@bcc.orst.edu

Journal of Immunology ( J. IMMUNOL. ) (United States) 15 FEB 1999, 162/4 (2024-2034)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 87

In this report we show that activation of APC with an **agonist anti-CD40** mAb profoundly alters the behavior of CD4 T cells in vivo. Stimulation of mice with anti-CD40 2 days before, but not 1 day after, administration of superantigen (SAg) enhanced CD4 and CD8 T cell clonal expansion by approximately threefold. Further, CD40 activation also delayed peripheral T cell deletion after activation. Dying, activated T cells were quantitated by detecting extracellular phosphatidylserine with concomitant staining for SAg- reactive T cells using a TCR Vbeta-specific mAb. Upon close examination, it was shown that CD40 activation delayed the death of the activated T cells. Additionally, it was found that enhanced survival of CD4 T cells was equally dependent on APC expression of B7-1 and B7-2. This is in contrast to CD8 T cells, which did not depend as much on B7-1 as B7-2. Thus, CD40 activation indirectly promotes T cell growth and delays the death of SAg-stimulated CD4 T cells in vivo. These data suggest that one way CD40 activation promotes a more robust immune response is by indirectly increasing the production of effector T cells and by keeping them alive for longer periods of time.

09436213 BIOSIS NO.: 199497444583

Monoclonal antibodies to murine CD40 define two distinct functional epitopes.

AUTHOR: Heath Andrew W; Wu Wei Wei; Howard Maureen C(a)

AUTHOR ADDRESS: (a)DNAX Res. Inst., 901 California Ave., Palo Alto, CA 94304\*\*USA

JOURNAL: European Journal of Immunology 24 (8):p1828-1834 1994

ISSN: 0014-2980

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Two rat IgG-2a antibodies which define distinct epitopes on murine CD40 have been generated. These antibodies specifically bind recombinant murine CD40 expressed on L cells, and the soluble extracellular domain of murine CD40 coated onto microtiter plates. Both antibodies bind B220+ but not B220 murine spleen cells, and immunoprecipitate a 45-kDa protein from the surface of purified murine splenic B cells. These antibodies exhibit separate functional properties, consistent with the notion that they define two distinct CD40 epitopes. One of the monoclonal antibodies (designated 1C10) directly induces a specific proliferative response from mature immune B cells, up-regulates several B cell surface antigens, and rescues immature B lymphoma cells from anti-IgM-induced growth arrest. The other monoclonal antibody (designated 4F11) exhibits none of these properties, but is capable of synergizing with suboptimal amounts of either anti-IgM antibodies or the 1C10 **agonistic anti-CD40** antibody to produce an optimal proliferative response of purified small dense B cells. Furthermore, 4F11 antibody synergizes with suboptimal amounts of 1C10 antibody to rescue B lymphoma cells from anti-IgM-induced growth arrest. The 1C10 and 4F11 antibodies were unable to cross-block each other's binding to recombinant CD40 expressed in L cells, providing strong support for the notion that the antibodies recognize distinct epitopes on CD40. The potential implications of two functionally distinct CD40 epitopes are discussed.



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11403258 BIOSIS NO.: 199800184590

The induction of a protective response in Leishmania major-infected BALB/c mice with anti-CD40 mAb.

AUTHOR: Ferlin Walter G; Von Der Weid Thierry; Cottrez Francoise; Ferrick David A; Coffman Robert L; Howard Maureen C(a)

AUTHOR ADDRESS: (a)Anergen Inc., 301 Penobscot Dr., Redwood City, CA 94036  
\*\*USA

JOURNAL: European Journal of Immunology 28 (2):p525-531 Feb., 1998

ISSN: 0014-2980

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

**ABSTRACT:** A protective immune response to the intracellular parasite *Leishmania major* requires the development of a Th1 CD4+ T cell phenotype. We demonstrate herein that BALB/c mice, which normally develop a susceptible Th2 response to *L. major* infection, are protected when co-injected with an **agonistic** anti-murine CD40 mAb. **Anti-CD40** mAb-mediated protection in this system was found to be T cell dependent, since it was not observed in C57BU 6 X 129 mice that were rendered T cell deficient (TCR beta-/- X TCR delta-/-) and *L. major* susceptible. Anti-CD40 mAb stimulation of *L. major*-infected BALB/c mice was accompanied by increased IL-12 and IFN-gamma production in draining lymph nodes, analyzed either by direct expression, or in an antigen-specific in vitro recall assay. The protective role of these cytokines was indicated by the finding that anti-CD40 mAb-mediated protection of *L. major*-infected BALB/c mice could be reversed by co-treating the animals with neutralizing anti-IL-12 and/or anti-IFN-gamma mAb. Collectively, these data suggest that BALB/c mice develop a protective Th1 CD4+ T cell response to *L. major* infection when co-injected with anti-CD40 mAb. While the CD40-CD40L interaction has been previously shown to be vital in the control of murine Leishmaniasis, the current study establishes in vivo that anti-CD40 mAb treatment alone is sufficient to protect BALB/c mice from *L. major* infection and raises the possibility of utilizing this approach for vaccination strategies.

WEST

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L2: Entry 7 of 10

File: USPT

Mar 2, 1999

DOCUMENT-IDENTIFIER: US 5876950 A

TITLE: Monoclonal antibodies specific for different epitopes of human GP39 and methods for their use in diagnosis and therapy

Brief Summary Text (4):

CD40 is a 50 kDa type I membrane glycoprotein expressed by B cells, macrophages, follicular dendritic cells, thymic epithelium, normal basal epithelium, some carcinoma and melanoma-derived cell lines (Clark and Ledbetter 1986, Proc. Nat'l. Acad. Sci. USA 83:4494; Paerlie et al. 1985, Cancer Immunol. Immunother. 20:23, Ledbetter et al. 1987, J. Immunol. 138:788; Young et al. 1989, Int. J. Cancer 43:786; Galy and Spits 1992, J. Immunol. 149:775, Alderson et al. 1993, J. Exp. Med 178:669) and recently has been reported to be expressed on T cells (Armitage et al. 1993, Eur. J. Immunol. 23: 2326). It has been shown to be an important signaling molecule with a range of downstream effects in multiple systems. Early studies showed that CD40 was involved in B cell activation. Crosslinking CD40 with anti-CD40 monoclonal antibody induces B cell aggregation via LFA-1 (Gordon et al. 1988, J. Immunol. 140:1425, Barrett et al., 1991, J. Immunol. 146:1722), increases Ser/Thr (Gordon et al. 1988, supra) and Tyr (Uckun et al. 1991, J. Biol. Chem. 266:17478) phosphorylation of a number of intracellular substrates and provides a "competence" signal that allows B cells to proliferate and undergo class switching when stimulated with the appropriate second signal. For example, anti-CD40 monoclonal antibody can synergize with PMA (Gordon et al. 1987, Eur. J. Immunol. 17:1535) or anti-CD20 monoclonal antibody (Clark and Ledbetter 1986, supra) to induce B cell proliferation, with IL-4 to induce B cell proliferation (Gordon et al. 1987, supra; Rousset et al. 1991, J. Exp. Med. 172:705) and IgE secretion (Jabara et al. 1990, J. Exp. Med. 172:1861; Gascan et al. 1991, J. Immunol. 147:8; Rousset et al. 1991, supra; Zhang et al. 1991, J. Immunol. 146:1836, Shapira et al. 1992, J. Exp. Med. 175:289) and with IL-10 and TGF- $\beta$  to induce IgA secretion by sIgD<sup>sup</sup> B cells (DeFrance et al. 1992, J. Exp. Med. 175:671).

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Set	Items	Description
S1	9	(3(W)23)(10N)(ANTIBOD?)(10N)(CD40)
S2	4	RD S1 (unique items)
S3	0	(CD40)(10N)(ANTIBOD?)(DENDRITIC)
S4	88	(CD40)(10N)(ANTIBOD?)(10N)(DENDRITIC)
S5	66	RD S4 (unique items)
S6	25	S5 AND PY<2000
S7	398	ANTI(W)CD40(20N)(HUMAN?)
S8	14	S7 AND DENDRITIC
S9	11	RD S8 (unique items)
S10	5	5C11 (20N) ANTIBOD? (20N) (CD40)
S11	2	RD S10 (unique items)
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DIALOG(R) File 399:CA SEARCH(R)  
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132346395 CA: 132(26)346395k JOURNAL  
Obtaining of anti-human CD40 mono-clonal antibody with special functions  
and analysis of it's biological effects  
AUTHOR(S): Zhou, Zhaohua; Wang, Jiangfang; Wang, Yuedan; Qiu, Yuhua; Pan,  
Jianzhong; Xie, Wei; Jiang, Lingyu; Zhang, Xueguang  
LOCATION: Department of Immunology, Suzhou Medical College, Suzhou, Peop.  
Rep. China, 215007  
JOURNAL: Zhongguo Mianyixue Zazhi DATE: 1999 VOLUME: 15 NUMBER: 12  
PAGES: 529-533 CODEN: ZMZAEE ISSN: 1000-484X LANGUAGE: Chinese  
PUBLISHER: Zhongguo Mianyixue Zazhi Bianjibu  
SECTION:  
CA215003 Immunochemistry  
IDENTIFIERS: monoclonal antibody CD40 dendritic cell lymphocyte  
DESCRIPTORS:  
Cell proliferation...  
B cell; prepn. of anti-human CD40 monoclonal antibody with special  
functions and anal. of its biol. effects  
Antibodies...  
monoclonal; prepn. of anti-human CD40 monoclonal antibody with special  
functions and anal. of its biol. effects  
CD40(antigen)...  
prepn. of anti-human CD40 monoclonal antibody with special functions  
and anal. of its biol. effects  
Dendritic cell...  
prepn. of anti-human CD40 monoclonal antibody with special functions  
and anal. of its biol. effects in relation to  
B cell(lymphocyte)...  
proliferation; prepn. of anti-human CD40 monoclonal antibody with  
special functions and anal. of its biol. effects

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Set	Items	Description
S1	9	(3(W)23)(10N)(ANTIBOD?)(10N)(CD40)
S2	4	RD S1 (unique items)
S3	0	(CD40)(10N)(ANTIBOD?)(DENDRITIC)
S4	88	(CD40)(10N)(ANTIBOD?)(10N)(DENDRITIC)
S5	66	RD S4 (unique items)
S6	25	S5 AND PY<2000
S7	398	ANTI(W)CD40(20N)(HUMAN?)
S8	14	S7 AND DENDRITIC
S9	11	RD S8 (unique items)
S10	5	5C11 (20N) ANTIBOD? (20N) (CD40)
S11	2	RD S10 (unique items)

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Set	Items	Description
S1	9	(3(W)23)(10N)(ANTIBOD?)(10N)(CD40)
S2	4	RD S1 (unique items)
S3	0	(CD40)(10N)(ANTIBOD?)(DENDRITIC)
S4	88	(CD40)(10N)(ANTIBOD?)(10N)(DENDRITIC)
S5	66	RD S4 (unique items)
S6	25	S5 AND PY<2000
S7	398	ANTI(W)CD40(20N)(HUMAN?)
S8	14	S7 AND DENDRITIC
S9	11	RD S8 (unique items)
S10	5	5C11 (20N) ANTIBOD? (20N) (CD40)

PATENT: PCT International ; WO 9513089 A1 DATE: 950518  
APPLICATION: WO 94US12802 (941108) \*US 150510 (931110) \*US 315492  
(940930)  
PAGES: 52 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: A61K-038/19A;  
C07K-017/10B; C07K-014/52B DESIGNATED COUNTRIES: AU; CA; JP  
DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC;  
NL; PT; SE

9/3/105 (Item 18 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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122078853 CA: 122(7)78853n JOURNAL  
IL-15 has stimulatory activity for the induction of B cell proliferation  
and differentiation  
AUTHOR(S): Armitage, Richard J.; Macduff, Brian M.; Eisenman, June;  
Paxton, Raymond; Grabstein, Kenneth H.  
LOCATION: Departments of Cellular Immunology and Protein Chemistry,  
Immunex Research and Development Corporation, Seattle, WA, 98101, USA  
JOURNAL: J. Immunol. DATE: 1995 VOLUME: 154 NUMBER: 2 PAGES: 483-90  
CODEN: JOIMA3 ISSN: 0022-1767 LANGUAGE: English

9/3/106 (Item 19 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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119093523 CA: 119(9)93523m PATENT  
Murine and human cytokine (CD40-L) which binds to CD40, and soluble CD40  
and CD40 fusion molecules  
INVENTOR(AUTHOR): Armitage, Richard J.; Fanslow, William C.; Spriggs,  
Melanie K.  
LOCATION: USA  
ASSIGNEE: Immunex Corp.  
PATENT: PCT International ; WO 9308207 A1 DATE: 930429  
APPLICATION: WO 92US8990 (921023) \*US 783707 (911025) \*US 805723 (911205)  
PAGES: 79 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07H-021/00A;  
A61K-035/14B; C07K-003/00B; C07K-007/00B; C07K-013/00B; C12P-021/02B;  
C12P-021/06B; C12N-015/00B DESIGNATED COUNTRIES: AU; CA; FI; JP; KR; NO  
DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC;  
NL; SE  
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\$0.00 Estimated cost File410

\$0.01 TELNET

\$0.01 Estimated cost this search

\$0.27 Estimated total session cost 0.145 DialUnits

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File 5:Biosis Previews(R) 1969-2002/Aug W2

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\*File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 73:EMBASE 1974-2002/Aug W3

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File 155:MEDLINE(R) 1966-2002/Aug W3

\*File 155: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 399:CA SEARCH(R) 1967-2002/UD=13708

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Set Items Description

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Ref Items Index-term

E1 1 AU=THOMAS DAVE Y

E2 65 AU=THOMAS DAVID

E3 0 \*AU=THOMAS DAVID /

E4 16 AU=THOMAS DAVID A

E5 54 AU=THOMAS DAVID B

E6 4 AU=THOMAS DAVID B L

E7 3 AU=THOMAS DAVID BRYNMOR

E8 18 AU=THOMAS DAVID C

E9 155 AU=THOMAS DAVID D

E10 7 AU=THOMAS DAVID F M

E11 9 AU=THOMAS DAVID G

E12 33 AU=THOMAS DAVID G T

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Ref Items Index-term

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E14 9 AU=THOMAS DAVID H

E15 3 AU=THOMAS DAVID H L

E16 52 AU=THOMAS DAVID J

E17 1 AU=THOMAS DAVID K

E18 92 AU=THOMAS DAVID L

E19 16 AU=THOMAS DAVID M

E20 2 AU=THOMAS DAVID MORGAN

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E22 2 AU=THOMAS DAVID P

E23 36 AU=THOMAS DAVID R

E24 1 AU=THOMAS DAVID S

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E28	109	AU=THOMAS DAVID Y
E29	1	AU=THOMAS DAVIS B
E30	2	AU=THOMAS DAWN M
E31	1	AU=THOMAS DAWNEY
E32	1	AU=THOMAS DE LABARTHE B D
E33	1	AU=THOMAS DE LABARTHE J D E
E34	8	AU=THOMAS DE MONTPREVILLE V
E35	5	AU=THOMAS DE MONTPREVILLE V.
E36	2	AU=THOMAS DE MONTPREVILLE, C.

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1	AU=THOMAS DAVE Y
65	AU=THOMAS DAVID
0	AU=THOMAS DAVID /
16	AU=THOMAS DAVID A
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3	AU=THOMAS DAVID BRYNMOR
18	AU=THOMAS DAVID C
155	AU=THOMAS DAVID D
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1	AU=THOMAS DAVID GT
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13	AU=THOMAS DAVID N
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1	AU=THOMAS DAVID T
31	AU=THOMAS DAVID W
109	AU=THOMAS DAVID Y

S1 737 E1-E28

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737 S1  
15418 CD40

S2 11 S1 AND CD40

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S3 11 RD S2 (unique items)

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3/7/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12450297 BIOSIS NO.: 200000203799



Readministration of adenovirus vector in nonhuman primate lungs by blockade of CD40-CD40 ligand interactions.

AUTHOR: Chirmule Narendra; Raper Steven E; Burkly Linda; Thomas David ; Tazelaar John; Hughes Joseph V; Wilson James M(a

AUTHOR ADDRESS: (a)University of Pennsylvania, 3601 Spruce St., 204 Wistar Institute, Philadelphia, PA, 19104\*\*USA

JOURNAL: Journal of Virology 74 (7):p3345-3352 April, 2000

ISSN: 0022-538X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTRACT: The interaction between CD40 on B cells and CD40 ligand (CD40L) on activated T cells is important for B-cell differentiation in T-cell-dependent humoral responses. We have extended our previous murine studies of CD40-CD40L in adenoviral vector-mediated immune responses to rhesus monkeys. Primary immune responses to adenoviral vectors and the ability to readminister vector were studied in rhesus monkeys in the presence or absence of a transient treatment with a humanized anti-CD40 ligand antibody (hu5C8). Adult animals were treated with hu5C8 at the time vector was instilled into the lung. Immunological analyses demonstrated suppression of adenovirus-induced lymphoproliferation and cytokine responses (interleukin-2 (IL-2), gamma interferon, IL-4, and IL-10) in hu5C8-treated animals. Animals treated with hu5C8 secreted adenovirus-specific immunoglobulin M (IgM) levels comparable to control animals, but did not secrete IgA or develop neutralizing antibodies; consequently, the animals could be readministered with adenovirus vector expressing alkaline phosphatase. A second study was designed to examine the long-term effects on immune functions of a short course of hu5C8. Acute hu5C8 treatment resulted in significant and prolonged inhibition of the adenovirus-specific humoral response well beyond the time hu5C8 effects were no longer significant. These studies demonstrate the potential of hu5C8 as an immunomodulatory regimen to enable administration of adenoviral vectors, and they advocate testing this model in humans.

3/7/2 (Item 2 from file: 5)

DIALOG(R)File. 5:Biosis Previews(R)

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12330253 BIOSIS NO.: 200000083755

Prolongation of primate cardiac allograft survival by treatment with anti-CD40 ligand (CD154) antibody.

AUTHOR: Pierson Richard N III(a); Chang Andrew C; Blum Matthew G; Blair Kelly S A; Scott Margie A; Atkinson James B; Collins Brendan J; Zhang Jian-Ping; Thomas David W; Burkly Linda C; Miller Geraldine G

AUTHOR ADDRESS: (a)Division of Cardiac and Thoracic Surgery, Vanderbilt University Medical Center, 2986 Vanderbilt Clinic, Nashville, TN, 37232-5734\*\*USA

JOURNAL: Transplantation (Baltimore) 68 (11):p1800-1805 Dec. 15, 1999

ISSN: 0041-1337

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTRACT: Background: We evaluated whether a humanized anti-CD154 antibody (hu5c8) prolongs primate cardiac allograft survival. Methods: Heterotopic cardiac allografts were performed between MHC class II-mismatched cynomolgus monkeys. Survival was compared between groups treated with a perioperative dosing of hu5c8 (group 1; n=6), sustained dosing with hu5c8

(group 2; n=3), and control regimens (n=4). All recipients received fresh donor-specific transfusions during surgery. Results: Median graft survival was 49 days (range 14 to 56) in group 1 and 106 days (range 56 to 245) in group 2, compared with 5 days (range 5 to 6) for controls ( $P<0.05$  for all comparisons). Lymphocytic infiltrates were often present in hu5c8-treated grafts with stable contractility. Donor-specific mixed lymphocyte reaction was generally preserved. Vasculitis and cellular intimal proliferation were prevalent in rejected grafts but occurred later and were less prevalent in group 2. Conclusions: Anti-CD154 antibody markedly prolongs the survival of cardiac allografts in primates and is well tolerated. Sustained dosing with hu5c8 yielded improved survival and may be associated with a lower incidence of vascular pathology. We conclude that hu5c8 therapy is an effective approach for inhibiting acute cardiac allograft rejection in primates.

3/7/3 (Item 3 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
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12052984 BIOSIS NO.: 199900333503  
An aggressive form of polyarticular arthritis in a man with CD154 mutation (X-linked hyper-IgM syndrome).  
AUTHOR: Webster Elizabeth A; Khakoo Aarif Y; Mackus Wendeline JM; Karpusas Michael; Thomas David W; Davidson Anne; Christian Charles L; Lederman Seth(a)  
AUTHOR ADDRESS: (a)Laboratory of Molecular Immunology, Columbia University, 630 West 168th Street, PH8-405, New York\*\*USA  
JOURNAL: Arthritis & Rheumatism 42 (6):p1291-1296 June, 1999  
ISSN: 0004-3591  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

ABSTRACT: Hyper-IgM syndrome (HIM) is a rare immunodeficiency disorder that has been associated with the development of symptoms and clinical features characteristic of rheumatoid arthritis (RA). We describe a patient with HIM and severe erosive arthritis with prominent nodules in the absence of detectable serum rheumatoid factor. Because HIM results from defects in either T cell CD154 (CD40 ligand) expression or abnormal CD40 signaling, the molecular basis of the patient's disease was analyzed. Activated CD4+ T cells failed to express surface CD154 protein, and molecular analysis of CD154 complementary DNA revealed a nucleotide transversion resulting in the nonconservative amino acid substitution G-D at amino acid 257. This case indicates that defective CD154-dependent CD40 signaling can be associated with susceptibility to a severe inflammatory arthritis that has both similarities to and differences from idiopathic RA.

3/7/4 (Item 4 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
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11657035 BIOSIS NO.: 199800438766  
Pharmacokinetics/dynamics of 5c8, a monoclonal antibody to CD154 (CD40 ligand) suppression of an immune response in monkeys.  
AUTHOR: Gobburu Jogarao V S; Tenhoor Christopher; Rogge Mark C; Frazier Donald E Jr; Thomas David; Benjamin Chris; Hess Donna M; Jusko William J(a)  
AUTHOR ADDRESS: (a)545 Hochstetter Hall, Dep. Pharm., SUNY, Buffalo, NY 14260\*\*USA  
JOURNAL: Journal of Pharmacology and Experimental Therapeutics 286 (2):p

925-930 Aug., 1998  
ISSN: 0022-3565  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

**ABSTRACT:** The pharmacokinetics and pharmacodynamics (PK/PD) of chimeric (Ch5c8) and humanized (Hu5c8) 5c8, a monoclonal antibody that binds CD154 (CD40 ligand), thus blocking the interaction between CD40 and CD154, were investigated in cynomolgus monkeys. Single-dose groups (n= 3 animals per dose) received saline, 0.2, 1, 5 or 20 mg/kg i.v. doses of Hu5c8. The repeat-dose groups (n = 4 animals) received 0 or 5 mg/kg i.v. doses of Ch5c8 or Hu5c8 on days 1, 2, 3, 5, 7 and 9. The single-dose PK parameters showed dose proportionality, with a terminal half-life of 300 h, a volume of distribution at steady state of 73 ml/kg and clearance of 0.2 mlcntdth-1cntdotkg-1. The repeat-dose regimen produced a longer terminal half-life (500 h) and lower clearance (0.13 mlcntdth-1cntdotkg-1) than in the single-dose groups. The antibody titer to tetanus toxoid (ATT) challenge served as the immunodynamic marker. The primary ATT response consisted of a latent phase of apprx10 days, during which the immune system was processing antigen but not yet producing antibody, a rise to an antibody maximum titer at apprx18 days and a decline toward baseline by apprx40 days in controls. The 5c8 produced a log(dose)-proportional reduction in the area under the curve of ATT. An indirect PK/PD model based on the kinetics of tetanus toxoid exposure and inhibition of ATT production in relation to 5c8 concentrations was developed. A median inhibitory concentration of 0.84 mug/ml and a efficacy of 0.84 reflected marked inhibition of ATT response by 5c8. The model provides quantitation of reduced ATT responses after 5c8 and was applicable to primary and secondary immune responses and to both single-dose and multiple-dose treatments. The monoclonal antibody 5c8 blocks the CD40 and CD154 interaction, producing consistent and substantive reduction in antibody formation after administration of tetanus toxoid, which can be characterized with PK/PD modeling. It is anticipated that 5c8 may have utility in the treatment of antibody-mediated autoimmune disease.

3/7/5 (Item 5 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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11490917 BIOSIS NO.: 199800272249

The role of polar interactions in the molecular recognition of CD40L with its receptor CD40.

**AUTHOR:** Singh Juswinder(a); Garber Ellen; Van Vlijmen Herman; Karpusas Michael; Hsu Yen-Ming; Zheng Zhongli; Naismith James H; **Thomas David**

**AUTHOR ADDRESS:** (a)Biogen Inc., 14 Cambridge Center, Cambridge, MA 02142\*\*  
USA

**JOURNAL:** Protein Science 7 (5):p1124-1135 May, 1998

**ISSN:** 0961-8368

**DOCUMENT TYPE:** Article

**RECORD TYPE:** Abstract

**LANGUAGE:** English

**ABSTRACT:** CD40 Ligand (CD40L) is transiently expressed on the surface of T-cells and binds to CD40, which is expressed on the surface of B-cells. This binding event leads to the differentiation, proliferation, and isotype switching of the B-cells. The physiological importance of CD40L has been demonstrated by the fact that expression of defective CD40L protein causes an immunodeficiency state characterized by high IgM and low IgG serum levels, indicating faulty T-cell dependent B-cell activation. To understand the structural basis for CD40L/CD40

association, we have used a combination of molecular modeling, mutagenesis, and X-ray crystallography. The structure of the extracellular region of CD40L was determined by protein crystallography, while the **CD40** receptor was built using homology modeling based upon a novel alignment of the TNF receptor superfamily, and using the X-ray structure of the TNF receptor as a template. The model shows that the interface of the complex is composed of charged residues, with CD40L presenting basic side chains (K143, R203, R207), and **CD40** presenting acidic side chains (D84, E114, E117). These residues were studied experimentally through site-directed mutagenesis, and also theoretically using electrostatic calculations with the program Delphi. The mutagenesis data explored the role of the charged residues in both CD40L and **CD40** by switching to Ala (K143A, R203A, R207A of CD40L, and E74A, D84A, E114A, E117A of **CD40**), charge reversal (K143E, R203E, R207E of CD40L, and D84R, E114R, E117R of **CD40**), mutation to a polar residue (K143N, R207N, R207Q of CD40L, and D84N, E117N of **CD40**), and for the basic side chains in CD40L, isosteric substitution to a hydrophobic side chain (R203M, R207M). All the charge-reversal mutants and the majority of the Met and Ala substitutions led to loss of binding, suggesting that charged interactions stabilize the complex. This was supported by the Delphi calculations which confirmed that the **CD40**/CD40L residue pairs E74-R203, D84-R207, and E117-R207 had a net stabilizing effect on the complex. However, the substitution of hydrophilic side chains at several of the positions was tolerated, which suggests that although charged interactions stabilize the complex, charge per se is not crucial at all positions. Finally, we compared the electrostatic surface of TNF/TNFR with CD40L/**CD40** and have identified a set of polar interactions surrounded by a wall of hydrophobic residues that appear to be similar but inverted between the two complexes.

3/7/6 (Item 6 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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11420349 BIOSIS NO.: 199800201681  
Effect of anti-CD40L antibody on the host response to Streptococcus pneumoniae.  
AUTHOR: Hwang Young-Il(a); Briles David E; **Thomas David W**; Nahm Moon H  
AUTHOR ADDRESS: (a)Univ. Rochester, Rochester, NY 14642\*\*USA  
JOURNAL: FASEB Journal 12 (4):pA570 March 17, 1998  
CONFERENCE/MEETING: Annual Meeting of the Professional Research Scientists on Experimental Biology 98, Part 1 San Francisco, California, USA April 18-22, 1998  
SPONSOR: Federation of American Societies for Experimental Biology  
ISSN: 0892-6638  
RECORD TYPE: Citation  
LANGUAGE: English

3/7/7 (Item 7 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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11090776 BIOSIS NO.: 199799711921  
CTLA4-Ig and anti-**CD40** ligand prevent renal allograft rejection in primates.  
AUTHOR: Kirk Allan D(a); Harlan David M; Armstrong Nicholas N; Davis Thomas A; Dong Yinchun; Gray Gary S; Hong Xuening; **Thomas David**; Fechner John H Jr; Knechtle Stuart J  
AUTHOR ADDRESS: (a)Division Transplantation, Univ. Wisconsin Hosp., Madison, WI 53792\*\*USA

JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 94 (16):p8789-8794 1997  
ISSN: 0027-8424  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: Selective inhibition of T cell costimulation using the B7-specific fusion protein CTLA4-Ig has been shown to induce long-term allograft survival in rodents. Antibodies preventing the interaction between **CD40** and its T cell-based ligand CD154 (CD40L) have been shown in rodents to act synergistically with CTLA4-Ig. It has thus been hypothesized that these agents might be capable of inducing long-term acceptance of allografted tissues in primates. To test this hypothesis in a relevant preclinical model, CTLA4-Ig and the CD40L-specific monoclonal antibody 5C8 were tested in rhesus monkeys. Both agents effectively inhibited rhesus mixed lymphocyte reactions, but the combination was 100 times more effective than either drug alone. Renal allografts were transplanted into nephrectomized rhesus monkeys shown to be disparate at major histocompatibility complex class I and class II loci. Control animals rejected in 5-8 days. Brief induction doses of CTLA4-Ig or 5C8 alone significantly prolonged rejection-free survival (20-98 days). Two of four animals treated with both agents experienced extended (gt 150 days) rejection-free allograft survival. Two animals treated with 5C8 alone and one animal treated with both 5C8 and CTLA4-Ig experienced late, biopsy-proven rejection, but a repeat course of their induction regimen successfully restored normal graft function. Neither drug affected peripheral T cell or B cell counts. There were no clinically evident side effects or rejections during treatment. We conclude that CTLA4-Ig and 5C8 can both prevent and reverse acute allograft rejection, significantly prolonging the survival of major histocompatibility complex-mismatched renal allografts in primates without the need for chronic immunosuppression.

3/7/8 (Item 8 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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10821727 BIOSIS NO.: 199799442872  
**CD40**-CD40L interactions are critical in immune responses of both cell-mediated and humoral immune responses to adenoviral vectors in non-human primates.  
AUTHOR: Chirmule Narendra(a); Raper Stevens E(a); Hess Donna; **Thomas David W**; Wilson James M(a)  
AUTHOR ADDRESS: (a)Univ. Pa., Philadelphia, PA\*\*USA  
JOURNAL: Journal of Allergy and Clinical Immunology 99 (1 PART 2):pS36 1997  
CONFERENCE/MEETING: Joint Meeting of the American Academy of Allergy, Asthma and Immunology, the American Association of Immunologists and the Clinical Immunology Society San Francisco, California, USA February 21-26, 1997  
ISSN: 0091-6749  
RECORD TYPE: Citation  
LANGUAGE: English

3/7/9 (Item 9 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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10738558 BIOSIS NO.: 199799359703  
Heteromultimeric complexes of **CD40** ligand are present on the cell surface of human T lymphocytes.  
AUTHOR: Hsu Yen-Ming(a); Lucci Jodie; Su Lihe; Ehrenfels Barbara; Garber

Ellen; **Thomas David**  
AUTHOR ADDRESS: (a)Dep. Protein Eng., Biogen Inc., 14 Cambridge Center,  
Cambridge, MA 02142\*\*USA  
JOURNAL: Journal of Biological Chemistry 272 (2):p911-915 1997  
ISSN: 0021-9258  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: **CD40** ligand (CD40L), a 33-kDa type II membrane glycoprotein expressed primarily on activated CD4+ T lymphocytes, is responsible for the helper function of T cells on resting B cells in a non-antigen-dependent, non-major histocompatibility complex-restricted fashion. Interaction of CD40L with its receptor **CD40** induces proliferation of and isotype switching in B lymphocytes. Recently we solved the x-ray structure of recombinant soluble CD40L and showed that, similar to other members of the tumor necrosis factor family, CD40L indeed exists as a trimer. We now report that, under normal physiological conditions, CD40L molecules exist as heteromultimeric complexes. These CD40L complexes, made of the full length and smaller fragments of CD40L, are present on the cell surface of T lymphocytes and are capable of interacting with **CD40** molecule. A prominent fragment with a mass of 31 kDa accounts for as much as half of the CD40L on the surface of Jurkat cells. Nterminal sequence data revealed that this fragment lacks the cytoplasmic tail. A minor 18-kDa fragment of CD40L was also characterized which lacks the cytoplasmic tail, transmembrane region, and stalk region of the extracellular domain. The presence of CD40L heteromultimeric variants implies an additional regulation of the functional activity of this ligand complex.

3/7/10 (Item 10 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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10452658 BIOSIS NO.: 199699073803  
Crystallographic studies of human **CD40** ligand.  
AUTHOR: Karpusas Michael(a); Hsu Yen-Ming(a); Wang Jia-Huai; Garber Ellen  
(a); Strauch Kathy(a); Thompson Jeff(a); Mullen Colleen(a); Lederman Seth  
; Ches Leonard; **Thomas David**(a)  
AUTHOR ADDRESS: (a)Biogen, Inc., 12 Cambridge Cent., Cambridge, MA 02142\*\*  
USA  
JOURNAL: European Cytokine Network 7 (2):p170 1996  
CONFERENCE/MEETING: 6th International Tumor Necrosis Factor Congress  
Rhodes, Greece May 8-12, 1996  
ISSN: 1148-5493  
RECORD TYPE: Citation  
LANGUAGE: English

3/7/11 (Item 11 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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10103441 BIOSIS NO.: 199698558359  
2 A crystal structure of an extracellular fragment of human **CD40**  
ligand.  
AUTHOR: Karpusas Michael(a); Hsu Yen-Ming; Wang Jia-Huai; Thompson Jeff;  
Lederman Seth; Chess Leonard; **Thomas David**  
AUTHOR ADDRESS: (a)Biogen Inc., 12 Cambridge Center, Cambridge, MA 02142\*\*  
USA  
JOURNAL: Structure (London) 3 (10):p1031-1039 1995  
ISSN: 0969-2126  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract

LANGUAGE: English

**ABSTRACT:** Background: The **CD40** ligand (CD40L) is a member of the tumor necrosis factor (TNF) family of proteins and is transiently expressed on the surface of activated T cells. The binding of CD40L to **CD40**, which is expressed on the surface of B cells, provides a critical and unique pathway of cellular activation resulting in antibody isotype switching, regulation of apoptosis, and B cell proliferation and differentiation. Naturally occurring mutations of CD40L result in the clinical hyper-IgM syndrome, characterized by an inability to produce immunoglobulins of the IgG, IgA and IgE isotypes. Results: We have determined the crystal structure of a soluble extracellular fragment of human CD40L to 2 Å resolution and with an R factor of 21.8%. Although the molecule forms a trimer similar to that found for other members of the TNF family, such as TNF-α and lymphotoxin-α, and exhibits a similar overall fold, there are considerable differences in several loops including those predicted to be involved in **CD40** binding. Conclusions: The structure suggests that most of the hyper-IgM syndrome mutations affect the folding and stability of the molecule rather than the **CD40**-binding site directly. Despite the fact that the hyper-IgM syndrome mutations are dispersed in the primary sequence, a large fraction of them are clustered in space in the vicinity of a surface loop, close to the predicted **CD40**-binding site.

? s (agonist? or stimulat?) (10n) (cd40 or g28(w)5) (10n) (antibod?)

Processing

```
398092 AGONIST?
2021414 STIMULAT?
15418 CD40
217 G28
5532817 5
118 G28(W)5
1735131 ANTIBOD?
S4 622 (AGONIST? OR STIMULAT?) (10N) (CD40 OR
G28(W)5) (10N) (ANTIBOD?)
```

? rd s4

```
...examined 50 records (50)
...examined 50 records (100)
...examined 50 records (150)
...examined 50 records (200)
...examined 50 records (250)
...examined 50 records (300)
...examined 50 records (350)
...examined 50 records (400)
...examined 50 records (450)
...examined 50 records (500)
...examined 50 records (550)
...examined 50 records (600)
...completed examining records
S5 279 RD S4 (unique items)
```

? s s5 and cd40L

```
279 S5
3948 CD40L
S6 34 S5 AND CD40L
```

? rd s6

```
...completed examining records
S7 34 RD S6 (unique items)
? s s5 and (cd40L or cd40(w)ligand)
```

```
279 S5
3948 CD40L
15418 CD40
320025 LIGAND
6912 CD40(W)LIGAND
S8 106 S5 AND (CD40L OR CD40(W)LIGAND)
```

? rd s8

...examined 50 records (50)  
...examined 50 records (100)  
...completed examining records  
S9 106 RD S8 (unique items)  
? t s9/3/all

9/3/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13764366 BIOSIS NO.: 200200393187  
Activation-induced cell death of aggressive histology lymphomas by CD40  
stimulation: Induction of bax.  
AUTHOR: Szocinski Jamie L; Khaled Annette R; Hixon Julie; Halverson Douglas  
; Funakoshi Satoshi; Fanslow William C; Boyd Ann; Taub Dennis D; Durum  
Scott K; Siegall Clay B; Longo Dan L; Murphy William J(a)  
AUTHOR ADDRESS: (a)SAIC-Frederick, National Cancer Institute at Frederick,  
Bldg 567, Rm 210, Frederick, MD, 21702\*\*USA E-Mail: murphyw@ncifcrf.gov  
JOURNAL: Blood 100 (1):p217-223 July 1, 2002  
MEDIUM: print  
ISSN: 0006-4971  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/2 (Item 2 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13741782 BIOSIS NO.: 200200370603  
Activation of antigen presenting cells (APCs) through toll like receptor  
(TLR) 9 or CD40 reverses tolerance and precipitates autoimmune disease.  
AUTHOR: Segal Benjamin Matthew(a); Ichikawa Hiroshi Travis  
AUTHOR ADDRESS: (a)Neurology, University of Rochester School of Medicine,  
601 Elmwood Avenue, Box 605, Rochester, NY, 14642\*\*USA  
JOURNAL: FASEB Journal 16 (5):pA1066 March 22, 2002  
MEDIUM: print  
CONFERENCE/MEETING: Annual Meeting of Professional Research Scientists on  
Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002  
ISSN: 0892-6638  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/3 (Item 3 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13730004 BIOSIS NO.: 200200358825  
**CD40 ligand (CD40L)** does not stimulate proliferation of  
vascular smooth muscle cells.  
AUTHOR: Hermann Alexander; Schroer Karsten(a); Weber Artur-Aron  
AUTHOR ADDRESS: (a)Institut fuer Pharmakologie und Klinische Pharmakologie,  
Heinrich-Heine-Universitaet, Moorenstr. 5, D-40225, Duesseldorf\*\*Germany  
E-Mail: kschroer@uni-duesseldorf.de  
JOURNAL: European Journal of Cell Biology 81 (4):p213-221 April, 2002  
MEDIUM: print  
ISSN: 0171-9335  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English



9/3/4 (Item 4 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13719326 BIOSIS NO.: 200200348147  
Use of **CD40 ligand**, a cytokine that binds CD40, to stimulate hybridoma cells.  
AUTHOR: Armitage Richard J(a); Fanslow William C; Spriggs Melanie K; Srinivasan Subhashini; Gibson Marylou G  
AUTHOR ADDRESS: (a)5133 Eagle Harbor Dr., Bainbridge Island, WA, 98110\*\*USA  
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1258 (3):pNo Pagination May 21, 2002  
MEDIUM: e-file  
ISSN: 0098-1133  
DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/5 (Item 5 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13700475 BIOSIS NO.: 200200329296  
CD40/**CD40 ligand** interactions in the host defense against disseminated *Candida albicans* infection: The role of macrophage-derived nitric oxide.  
AUTHOR: Netea Mihai G; van der Meer Jos W M; Verschueren Ineke; Kullberg Bart Jan(a)  
AUTHOR ADDRESS: (a)Department of Medicine, University Medical Center St. Radboud, 541, 6500 HB, Nijmegen\*\*Netherlands E-Mail: B.Kullberg@AIG.AZN.NL  
JOURNAL: European Journal of Immunology 32 (5):p1455-1463 May, 2002  
MEDIUM: print  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/6 (Item 6 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13612394 BIOSIS NO.: 200200241215  
Human anti-CD40 antagonistic antibodies inhibit the proliferation of human B cell non-Hodgkin's lymphoma.  
AUTHOR: Weng Wen-Kai(a); Wang Changyu; Chu Keting; Levy Ronald(a)  
AUTHOR ADDRESS: (a)Medicine/Oncology, Stanford University, Stanford, CA\*\*USA  
JOURNAL: Blood 98 (11 Part 1):p466a November 16, 2001  
MEDIUM: print  
CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001  
ISSN: 0006-4971  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/7 (Item 7 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13557719 BIOSIS NO.: 200200186540

Differential responses of Burkitts lymphoma cells to CD40 ligation: Optimal stimulation requires efficient receptor oligomerisation.

AUTHOR: Chapman Rachel S(a); Rickinson Alan B(a); Young Lawrence S(a)

AUTHOR ADDRESS: (a)CRC Institute for Cancer Studies, Birmingham University, Birmingham, West Midlands\*\*UK

JOURNAL: Blood 98 (11 Part 1):p332a November 16, 2001

MEDIUM: print

CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001

ISSN: 0006-4971

RECORD TYPE: Abstract

LANGUAGE: English

9/3/8 (Item 8 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

13440351 BIOSIS NO.: 200200069172

Enforced and prolonged **CD40 ligand** expression triggers autoantibody production in vivo.

AUTHOR: Santos-Argumedo Leopoldo(a); Alvarez-Maya Ikuri; Romero-Ramirez Hector; Flores-Romo Leopoldo

AUTHOR ADDRESS: (a)Department of Molecular Biomedicine, Centro de Investigacion y Estudios Avanzados, I.P.N., cp 07360, Mexico, D.F.\*\* Mexico E-Mail: lesantos@mail.cinvestav.mx

JOURNAL: European Journal of Immunology 31 (12):p3484-3492 December, 2001

MEDIUM: print

ISSN: 0014-2980

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

9/3/9 (Item 9 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

13267128 BIOSIS NO.: 200100474277

Autoreactive CD4+ T-cell clones to beta2-glycoprotein I in patients with antiphospholipid syndrome: Preferential recognition of the major phospholipid-binding site.

AUTHOR: Arai Takahide; Yoshida Kazue; Kaburaki Junichi; Inoko Hidetoshi; Ikeda Yasuo; Kawakami Yutaka; Kuwana Masataka(a)

AUTHOR ADDRESS: (a)Institute for Advanced Medical Research, Keio University School of Medicine, 35 Shinanomachi, Shinjuku-ku, Tokyo, 160-8582: kuwanam@sc.itc.keio.ac.jp\*\*Japan

JOURNAL: Blood 98 (6):p1889-1896 September 15, 2001

MEDIUM: print

ISSN: 0006-4971

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

9/3/10 (Item 10 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

13202980 BIOSIS NO.: 200100410129

Pathways for self-tolerance and the treatment of autoimmune diseases.

AUTHOR: Goodnow Christopher C(a)

AUTHOR ADDRESS: (a)Australian Cancer Research Foundation, Genetics

Laboratory, Medical Genome Centre, John Curtin School of Medical  
Research, Australian National University, Canberra, 2601:  
chris.goodnow@anu.edu.au\*\*Australia  
JOURNAL: Lancet (North American Edition) 357 (9274):p2115-2121 30 June,  
2001  
MEDIUM: print  
ISSN: 0099-5355  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/11 (Item 11 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13118157 BIOSIS NO.: 200100325306  
The in vitro proliferation of murine lymphocytes to mercuric chloride is  
restricted to mature T cells and is interleukin 1 dependent.  
AUTHOR: Pollard K Michael(a); Landberg Goran P  
AUTHOR ADDRESS: (a)W.M. Keck Autoimmune Disease Center, Department of  
Molecular and Experimental Medicine, Scripps Research Institute, 10550  
North Torrey Pines Road, La Jolla, CA, 92037: mpollard@scripps.edu\*\*USA  
JOURNAL: International Immunopharmacology 1 (3):p581-593 March, 2001  
MEDIUM: print  
ISSN: 1567-5769  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/12 (Item 12 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13071518 BIOSIS NO.: 200100278667  
The inducible costimulatory (ICOS) molecule is critical for antibody class  
switching.  
AUTHOR: McAdam Alexander John(a); Greenwald Rebecca(a); Levin Michele(a);  
Ling Vincent; Chernova Tatyana; Malenkovich Nelly; Freeman Gordon; Sharpe  
Arlene(a)  
AUTHOR ADDRESS: (a)Brigham and Womens Hospital, 221 Longwood Ave., LMRC 5th  
Floor, Boston, MA, 02115\*\*USA  
JOURNAL: FASEB Journal 15 (4):pA345 March 7, 2001  
MEDIUM: print  
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies  
for Experimental Biology on Experimental Biology 2001 Orlando, Florida,  
USA March 31-April 04, 2001  
ISSN: 0892-6638  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/13 (Item 13 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13060592 BIOSIS NO.: 200100267741  
Regulation of iNOS expression and myocardial cell death: Mechanisms of  
allograft survival with CD40L deficiency.  
AUTHOR: Shimizu Koichi(a); Rabkin Elena(a); Schoenbeck Uwe(a); Libby Peter

(a); Mitchell Richard N(a)  
AUTHOR ADDRESS: (a)Brigham and Women's Hospital, Harvard Medical School,  
Boston, MA, 02115\*\*USA  
JOURNAL: FASEB Journal 15 (4):pA670 March 7, 2001  
MEDIUM: print  
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies  
for Experimental Biology on Experimental Biology 2001 Orlando, Florida,  
USA March 31-April 04, 2001  
ISSN: 0892-6638  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/14 (Item 14 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13013882 BIOSIS NO.: 200100221031  
B cells activated via CD40 and IL-4 undergo a division burst but require  
continued stimulation to maintain division, survival and differentiation.  
AUTHOR: Rush James S; Hodgkin Philip D(a)  
AUTHOR ADDRESS: (a)Centenary Institute of Cancer Medicine and Cell Biology,  
Newtown, NSW, 2042: p.hodgkin@centenary.usyd.edu.au\*\*Australia  
JOURNAL: European Journal of Immunology 31 (4):p1150-1159 April, 2001  
MEDIUM: print  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/15 (Item 15 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12806263 BIOSIS NO.: 200100013412  
Differential effects of CD40 stimulation on normal and neoplastic cell  
growth.  
AUTHOR: Ziebold Jamie L; Hixon Julie; Boyd Ann; Murphy William J(a)  
AUTHOR ADDRESS: (a)SAIC-Frederick, NCI-FCRDC, Building 567, Room 210,  
Frederick, MD, 21702: murphyw@mail.ncifcrf.gov\*\*USA  
JOURNAL: Archivum Immunologiae et Therapiae Experimentalis 48 (4):p225-233  
2000  
MEDIUM: print  
ISSN: 0004-069X  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/16 (Item 16 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12741467 BIOSIS NO.: 200000495090  
Osteopontin augments CD3-mediated interferon-gamma and CD40  
ligand expression by T cells, which results in IL-12 production  
from peripheral blood mononuclear cells.  
AUTHOR: O'Regan Anthony W; Hayden Jason M; Berman Jeffrey S(a)  
AUTHOR ADDRESS: (a)Pulmonary Center, Boston University School of Medicine,  
715 Albany Street, Boston, MA, 02118\*\*USA

JOURNAL: Journal of Leukocyte Biology 68 (4):p495-502 October, 2000  
MEDIUM: print  
ISSN: 0741-5400  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/17 (Item 17 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12678872 BIOSIS NO.: 200000432374  
Increased expression of **CD40 ligand** in activated CD4+ T lymphocytes of systemic sclerosis patients.  
AUTHOR: Valentini Gabriele(a); Romano Maria Fiammetta; Naclerio Caterina; Bisogni Rita; Lamberti Annalisa; Turco Maria Caterina; Venuta Salvatore  
AUTHOR ADDRESS: (a)Istituto di Clinica Medica e Reumatologia, II Università di Napoli, Via Pansini, 5, 80131, Napoli\*\*Italy  
JOURNAL: Journal of Autoimmunity 15 (1):p61-66 August, 2000  
MEDIUM: print  
ISSN: 0896-8411  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/18 (Item 18 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12604864 BIOSIS NO.: 200000358366  
**Agonistic** properties and in vivo antitumor activity of the anti-**CD40 antibody** SGN-14.  
AUTHOR: Francisco Joseph A; Donaldson Karen L; Chace Dana; Siegall Clay B; Wahl Alan F(a)  
AUTHOR ADDRESS: (a)Department of Biochemistry, Seattle Genetics, Inc., 22215 26th Avenue SE, Bothell, WA, 98021\*\*USA  
JOURNAL: Cancer Research 60 (12):p3225-3231 June 15, 2000  
MEDIUM: print  
ISSN: 0008-5472  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/19 (Item 19 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12574085 BIOSIS NO.: 200000327587  
An increased number of CD40-high monocytes in patients with Crohn's disease.  
AUTHOR: Sawada-Hase Naoko; Kiyohara Tatsuya(a); Miyagawa Jun-ichiro; Ueyama Harumi; Nishibayashi Hiroyuki; Murayama Yoko; Kashihara Takeshi; Nakahara Masanori; Miyazaki Yoshiji; Kanayama Shuji; Nezu Riichiro; Shinomura Yasuhisa; Matsuzawa Yuji  
AUTHOR ADDRESS: (a)Department of Internal Medicine and Molecular Science, Graduate School of Medicine, Osaka University, 2-2 B-5 Yamadaoka, Suita, Osaka, 565-0871\*\*Japan  
JOURNAL: American Journal of Gastroenterology 95 (6):p1516-1523 June, 2000

MEDIUM: print  
ISSN: 0002-9270  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/20 (Item 20 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12571721 BIOSIS NO.: 200000325223  
CD40-**CD40 ligand** interactions in vivo regulate migration of  
antigen-bearing dendritic cells from the skin to draining lymph nodes.  
AUTHOR: Moodycliffe Angus M; Shreedhar Vijay; Ullrich Stephen E;  
Walterscheid Jeffrey; Bucana Corazon; Kripke Margaret L; Flores-Romo  
Leopoldo(a)  
AUTHOR ADDRESS: (a)Inq.: Ms. Sue Adams, Dept. of Immunology-178, M.D.  
Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX, 77030\*\*USA  
JOURNAL: Journal of Experimental Medicine 191 (11):p2011-2020 June 5, 2000  
MEDIUM: print  
ISSN: 0022-1007  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/21 (Item 21 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12464970 BIOSIS NO.: 200000218472  
Depressed **CD40 ligand** expression contributes to reduced gamma  
interferon production in human tuberculosis.  
AUTHOR: Samten Buka; Thomas Elaine K; Gong Jianhua; Barnes Peter F(a)  
AUTHOR ADDRESS: (a)Center for Pulmonary and Infectious Disease Control,  
University of Texas Health Center at Tyler, 11937 U.S. Highway 271,  
Tyler, TX, 75708-3154\*\*USA  
JOURNAL: Infection and Immunity 68 (5):p3002-3006 May, 2000  
ISSN: 0019-9567  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/22 (Item 22 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12440849 BIOSIS NO.: 200000194351  
Identification of a human follicular dendritic cell molecule that  
stimulates germinal center B cell growth.  
AUTHOR: Li Li; Zhang Xin; Kovacic Charlotte; Long Andrew J; Bourque Karen;  
Wood Clive R; Choi Yong Sung(a)  
AUTHOR ADDRESS: (a)Laboratory of Cellular Immunology, Alton Ochsner Medical  
Foundation, 1516 Jefferson Hwy., New Orleans, LA, 70121\*\*USA  
JOURNAL: Journal of Experimental Medicine 191 (6):p1077-1083 March 20,  
2000  
ISSN: 0022-1007  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract

LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/23 (Item 23 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12349382 BIOSIS NO.: 200000102884  
CD40 signals apoptosis through FAN-regulated activation of the  
sphingomyelin-ceramide pathway.  
AUTHOR: Segui Bruno; Andrieu-Abadie Nathalie; Adam-Klages Sabine; Meilhac  
Olivier; Kreder Dirk; Garcia Virginie; Bruno Alain P; Jaffrezou  
Jean-Pierre; Salvayre Robert; Kroenke Martin; Lévade Thierry(a)  
AUTHOR ADDRESS: (a)Laboratoire de Biochimie, INSERM U466, Institut Louis  
Bugnard, Centre Hospitalier Universitaire Rangueil, 1 Avenue Jean  
Poulhes, Batiment L3, F-31403, Toulouse Cedex 4\*\*France  
JOURNAL: Journal of Biological Chemistry 274 (52):p37251-37258 Dec. 24,  
1999  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/24 (Item 24 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12215880 BIOSIS NO.: 199900510729  
Antibody production in autoimmune BXSB mice. I. CD40L-expressing B  
cells need fewer signals for polyclonal antibody synthesis.  
AUTHOR: Blossom S; Gilbert K M(a)  
AUTHOR ADDRESS: (a)University of Arkansas for Medical Sciences, 4301 West  
Markham, Little Rock, AR, 72205\*\*USA  
JOURNAL: Clinical and Experimental Immunology 118 (1):p147-153 Oct., 1999  
ISSN: 0009-9104  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/25 (Item 25 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12215818 BIOSIS NO.: 199900510667  
Staphylococcus aureus Cowan strain 1 activation of B-chronic lymphocytic  
leukaemia cells augments the response to CD40 stimulation.  
AUTHOR: Soderberg O(a); Thunberg U; Weigelt C; Christiansen I; Totterman T  
H; Carlsson M; Sallstrom J; Nilsson K  
AUTHOR ADDRESS: (a)Instituto de Patologia e Imunologia Molecular da  
Universidade do Porto (IPATIMUP), Rua Dr Roberto Frias s/n, 4200, Porto\*\*  
Portugal  
JOURNAL: Scandinavian Journal of Immunology 50 (4):p363-370 Oct., 1999  
ISSN: 0300-9475  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/26 (Item 26 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12203394 BIOSIS NO.: 199900498243  
Activation sensitizes human memory B cells to B-cell receptor-induced  
apoptosis.  
AUTHOR: Berard M; Casamayor-Palleja M; Billian G; Bella C; Mondiere P;  
Defrance T(a)  
AUTHOR ADDRESS: (a)INSERM U 404, Avenue Tony Garnier, 69365, Lyon, Cedex 07  
\*\*France  
JOURNAL: Immunology 98 (1):p47-54 Sept., 1999  
ISSN: 0019-2805  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/27 (Item 27 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12187499 BIOSIS NO.: 199900482348  
CD40-**CD40 ligand** interactions augment survival of normal mice,  
but not **CD40 ligand** knockout mice, challenged orally with  
Salmonella dublin.  
AUTHOR: Marriott Ian; Thomas Elaine K; Bost Kenneth L(a)  
AUTHOR ADDRESS: (a)Department of Biology, University of North Carolina at  
Charlotte, 9201 University City Blvd., Charlotte, NC, 28223\*\*USA  
JOURNAL: Infection and Immunity 67 (10):p5253-5257 Oct., 1999  
ISSN: 0019-9567  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/28 (Item 28 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11979865 BIOSIS NO.: 199900233178  
Inhibition of human breast carcinoma growth by a soluble recombinant human  
**CD40 ligand**.  
AUTHOR: Hirano Akio; Longo Dan L; Taub Dennis D; Ferris Douglas K; Young  
Lawrence S; Eliopoulos Arisitides G; Agathangelou Angelo; Cullen Nicky;  
Macartney James; Fanslow William C; Murphy William J(a)  
AUTHOR ADDRESS: (a)SAIC-Frederick, Bldg 567, Room 210, Frederick, MD\*\*USA  
JOURNAL: Blood 93 (9):p2999-3007 May 1, 1999  
ISSN: 0006-4971  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/29 (Item 29 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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11979280 BIOSIS NO.: 199900232593  
CD40 ligation prevents Trypanosoma cruzi infection through interleukin-12  
upregulation.



AUTHOR: Chaussabel Damien; Jacobs Frederique; De Jonge Jan; De Veerman  
Marijke; Carlier Yves; Thielemans Kris; Goldman Michel; Vray Bernard(a)  
AUTHOR ADDRESS: (a)Laboratoire d'Immunologie Experimentale, Faculte de  
Medecine, Universite Libre de Bruxelles, rou\*\*Belgium  
JOURNAL: Infection and Immunity 67 (4):p1929-1934 April, 1999  
ISSN: 0019-9567  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/30 (Item 30 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11648220 BIOSIS NO.: 199800429951  
Expression of costimulatory molecule CD40 in murine heart with acute  
myocarditis and reduction of inflammation by treatment with anti-  
CD40L/B7-1 monoclonal antibodies.  
AUTHOR: Seko Yoshinori(a); Takahashi Naoyuki; Azuma Miyuki; Yagita Hideo;  
Okumura Ko; Yazaki Yoshio  
AUTHOR ADDRESS: (a)Third Dep. Intern. Med., Fac. Med., Univ. Tokyo, 7-3-1  
Hongo, Bunkyo-ku, Tokyo 113\*\*Japan  
JOURNAL: Circulation Research 83 (4):p463-469 Aug. 24, 1998  
ISSN: 0009-7330  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/31 (Item 31 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11624085 BIOSIS NO.: 199800406331  
Stimulation of CD40 in human bladder carcinoma cells inhibits  
anti-Fas/APO-1 (CD95)-induced apoptosis.  
AUTHOR: Jakobson Eva(a); Jonsson Gun; Bjorck Pia; Paulie Staffan  
AUTHOR ADDRESS: (a)Dep. Immunology, Stockholm Univ., S-106 91 Stocholm\*\*  
Sweden  
JOURNAL: International Journal of Cancer 77 (6):p849-853 Sept. 11, 1998  
ISSN: 0020-7136  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/32 (Item 32 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11516369 BIOSIS NO.: 199800297701  
Expression and function of CD40 in rheumatoid arthritis synovium.  
AUTHOR: Sekine Chiyoko; Yagita Hideo; Miyasaka Nobuyuki; Okumura K(a)  
AUTHOR ADDRESS: (a)Dep. Immunol., Juntendo Univ. School Med., 2-1-1 Hongo,  
Bunkyo-ku, Tokyo 113\*\*Japan  
JOURNAL: Journal of Rheumatology 25 (6):p1048-1053 June, 1998  
ISSN: 0315-162X  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/33 (Item 33 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11296955 BIOSIS NO.: 199800078287  
Induction of interleukin-12 p40 transcript by CD40 ligation via activation  
of nuclear factor-variant kappaB.  
AUTHOR: Yoshimoto Takayuki(a); Nagase Hisashi; Ishida Takaomi; Inoue  
Jun-Ichiro; Nariuchi Hideo  
AUTHOR ADDRESS: (a)Dep. Allergol., Inst. Med. Sci., Univ. Tokyo, 4-6-1  
Shirokanedai, Minato-ku, Tokyo 108\*\*Japan  
JOURNAL: European Journal of Immunology 27 (12):p3461-3470 Dec., 1997  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/34 (Item 34 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11296938 BIOSIS NO.: 199800078270  
**CD40 ligand** inhibits Fas/CD95-mediated apoptosis of human  
blood-derived dendritic cells.  
AUTHOR: Koppi Thelma A(a); Tough-Bement Teresa; Lewinsohn David M; Lynch  
David H; Alderson Mark R  
AUTHOR ADDRESS: (a)Dep. Immunol., Corixa Corp., 1124 Columbia St., Suite  
464, Seattle, WA 98104\*\*USA  
JOURNAL: European Journal of Immunology 27 (12):p3161-3165 Dec., 1997  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/35 (Item 35 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11037864 BIOSIS NO.: 199799659009  
Modulation of soluble **CD40 ligand** bioactivity with anti-CD40  
antibodies.  
AUTHOR: Schwabe Robert F; Hess Sigrun; Johnson Judith P; Engelmann Hartmut  
(a)  
AUTHOR ADDRESS: (a)Inst. Immunol., Goethestr. 31, 80336 Muenchen\*\*Germany  
JOURNAL: Hybridoma 16 (3):p217-226 1997  
ISSN: 0272-457X  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/36 (Item 36 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10990346 BIOSIS NO.: 199799611491  
CD86 (B7-2) on human B cells. A functional role in proliferation and  
selective differentiation into IgE- and IgG4-producing cells.  
AUTHOR: Jeannin Pascale; Delneste Yves; Lecoanet-Henchoz Sybille; Gauchat  
Jean-Francois; Ellis Jonathan; Bonnefoy Jean-Yves(a)  
AUTHOR ADDRESS: (a)Geneva Biomedical Res. Inst., Glaxo Wellcome Res.  
Development, Immunol. Dep., 14 Chemin des Aulx\*\*Switzerland  
JOURNAL: Journal of Biological Chemistry 272 (25):p15613-15619 1997

ISSN: 0021-9258  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/37 (Item 37 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10984118 BIOSIS NO.: 199799605263  
Interleukin-13 in combination with **CD40 ligand** potentially  
inhibits apoptosis in human B lymphocytes: Upregulation of Bcl-xL and  
McL-1.  
AUTHOR: Lomo Jon(a); Blomhoff Heidi Kiil; Jacobsen Sten Eirik; Krajewski  
Stanislaw; Reed John C; Smeland Erlend B  
AUTHOR ADDRESS: (a)Dep. Immunology, Inst. Cancer Res., The Norwegian Radium  
Hosp., N-0310 Oslo\*\*Norway  
JOURNAL: Blood 89 (12):p4415-4424 1997  
ISSN: 0006-4971  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/38 (Item 38 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10922564 BIOSIS NO.: 199799543709  
**Stimulation** of B-chronic lymphocytic leukemia cells by murine  
fibroblasts, IL-4, anti-**CD40 antibodies**, and the soluble  
**CD40 ligand**.  
AUTHOR: Buske Christian(a); Gogowski Gerald; Schreiber Karin; Rave-Fraenk  
Margret; Hiddemann Wolfgang; Woermann Bernhard  
AUTHOR ADDRESS: (a)Dep. Internal Med., Div. Hematol./Oncol., Univ. Hosp.,  
Robert-Koch-Str. 40, 37075 Goettingen\*\*Germany  
JOURNAL: Experimental Hematology (Charlottesville) 25 (4):p329-337 1997  
ISSN: 0301-472X  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/39 (Item 39 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10851739 BIOSIS NO.: 199799472884  
Induction and differential regulation of bee venom phospholipase  
A-2-specific human IgE and IgG-4 antibodies in vitro requires  
allergen-specific and nonspecific activation of T and B cells.  
AUTHOR: Akdis Cezmi A(a); Blesken Thorsten; Akdis Mubeccel; Alkan Sefik S;  
Wuthrich Brunello; Heusser Christoph H; Blaser Kurt  
AUTHOR ADDRESS: (a)Swiss Inst. Allergy Asthma Res., Obere Strasse 22,  
CH-7270 Davos Platz\*\*Switzerland  
JOURNAL: Journal of Allergy and Clinical Immunology 99 (3):p345-353 1997  
ISSN: 0091-6749  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/40 (Item 40 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10803314 BIOSIS NO.: 199799424459

CD40-**CD40L** interactions provide "third-party" costimulation for T cell response against B7-1-transfected human breast tumor cells.  
AUTHOR: Pericle Federica(a); Epling-Burnette P K; Podack Eckhard R; Wei Sheng; Deju Julie Y  
AUTHOR ADDRESS: (a)Exp. Immunol. Branch, NCI, NIH, Build. 10, Room 4B-17, Bethesda, MD 20892\*\*USA  
JOURNAL: Journal of Leukocyte Biology 61 (2):p201-208 1997  
ISSN: 0741-5400  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/41 (Item 41 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10731391 BIOSIS NO.: 199799352536  
Inhibition of aggressive histology human B cell lymphoma growth by **CD40 stimulation** in vivo: A comparison of a **CD40 antibody** and a recombinant soluble **CD40 ligand** (srCD40L).  
AUTHOR: Murphy W J(a); Asai O; Hirano A; Funakoshi S; Fanslow W C; Longo D L  
AUTHOR ADDRESS: (a)LLB, DBS, NCI, Frederick, MD\*\*USA  
JOURNAL: Blood 88 (10 SUPPL. 1 PART 1-2):p89A 1996  
CONFERENCE/MEETING: Thirty-eighth Annual Meeting of the American Society of Hematology Orlando, Florida, USA December 6-10, 1996  
ISSN: 0006-4971  
RECORD TYPE: Citation  
LANGUAGE: English

9/3/42 (Item 42 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10714409 BIOSIS NO.: 199799335554  
Activated T hybridomas induce upregulation of B7-1 on bystander B lymphoma cells by a contact-dependent interaction utilizing **CD40 ligand**.  
AUTHOR: Jones Keith W(a); Hackett Charles J  
AUTHOR ADDRESS: (a)Spectra Biomed. Inc., Dep. Molecular Genetics, 4040 Campbell Ave., Menlo Park, CA 94025\*\*USA  
JOURNAL: Cellular Immunology 174 (1):p42-53 1996  
ISSN: 0008-8749  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/43 (Item 43 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10664771 BIOSIS NO.: 199799285916  
Proliferation of precursor B-lineage acute lymphoblastic leukaemia by activating the CD40 antigen.  
AUTHOR: Planken E V(a); Dijkstra N H; Bakkus M; Willemze R; Kluin-Nelemans J C  
AUTHOR ADDRESS: (a)Dep. Haematology, Bldg 1, C2-R, Rijnsburgerweg 10, 2333 AA Leiden\*\*Netherlands  
JOURNAL: British Journal of Haematology 95 (2):p319-326 1996  
ISSN: 0007-1048  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/44 (Item 44 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10626524 BIOSIS NO.: 199699247669  
Distinct mechanisms for rescue from apoptosis in Ramos human B cells by  
signaling through CD40 and interleukin-4 receptor: Role for inhibition of  
an early response gene, Berg36.  
AUTHOR: Ning Zhi-Qiang; Norton John D; Li Jin; Murphy John J(a)  
AUTHOR ADDRESS: (a)Infection Immunity Res. Group, Div. Life Sci., King's  
Coll. London, London W8 7AH\*\*UK  
JOURNAL: European Journal of Immunology 26 (10):p2356-2363 1996  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/45 (Item 45 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10461023 BIOSIS NO.: 199699082168  
Human dendritic cells activate T lymphocytes via a CD40: **CD40**  
**ligand**-dependent pathway.  
AUTHOR: McLellan Alexander D; Sorg Rudiger V; Williams Lisa A; Hart Derek N  
J(a)  
AUTHOR ADDRESS: (a)Haematol./Immunol. Res. Group, Christchurch Hosp., P.O.  
Box 151, Christchurch\*\*New Zealand  
JOURNAL: European Journal of Immunology 26 (6):p1204-1210 1996  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/46 (Item 46 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10429050 BIOSIS NO.: 199699050195  
BCL-6 expression during B-cell activation.  
AUTHOR: Allman David; Jain Ashish; Dent Alex; Maile Randal R; Selvaggi  
Thomas; Kehry Marilyn R; Staudt Louis M(a)  
AUTHOR ADDRESS: (a)Metabolism Branch, Natl. Cancer Inst., Natl. Inst.  
Health, Build. 10, Room 4N114, 9000 Rockville\*\*USA  
JOURNAL: Blood 87 (12):p5257-5268 1996  
ISSN: 0006-4971  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/47 (Item 47 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10374181 BIOSIS NO.: 199698829099  
**CD40**-mediated **stimulation** contributes to lymphocyte  
proliferation, **antibody** production, eosinophilia, and mastocytosis  
during an in vivo type 2 response, but is not required for T cell IL-4  
production.

AUTHOR: Lu Pin; Urban Joseph F; Di Zhou Xia; Chen S-J; Madden Kathleen;  
Moorman Mark; Nguyen Huong; Morris Suzanne C; Finkelman Fred D; Gause  
William C(a)  
AUTHOR ADDRESS: (a)Dep. Microbiol., B3106, USUHS, 4301 Jones Bridge Road,  
Bethesda, MD 20814-4799\*\*USA  
JOURNAL: Journal of Immunology 156 (9):p3327-3333 1996  
ISSN: 0022-1767  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/48 (Item 48 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10339644 BIOSIS NO.: 199698794562  
CD11a-CD18 and CD102 interactions mediate human myeloma cell growth arrest  
induced by CD40 stimulation.  
AUTHOR: Pellat-Deceunynck Catherine(a); Amiot Martine; Robillard Nelly;  
Wijdenes John; Bataille Regis  
AUTHOR ADDRESS: (a)Lab. d'Oncogenese Immunohematol., Inst. Biol., 9, quai  
Moncoussu, 44035 Nantes Cedex 01\*\*France  
JOURNAL: Cancer Research 56 (8):p1909-1916 1996  
ISSN: 0008-5472  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/49 (Item 49 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10331405 BIOSIS NO.: 199698786323  
CD40 expression by human peripheral blood eosinophils.  
AUTHOR: Ohkawara Yuichi; Lim Kaiser G; Xing Zhou; Gilbertic Marija; Nakano  
Koichi; Dolovich Jerry; Croitoru Kenneth; Weller Peter F; Jordana Manel  
(a)  
AUTHOR ADDRESS: (a)Dep. Pathol., Room 4H 21 McMaster Univ., 1200 Main St.  
West, Hamilton, ON L8N 3Z5\*\*Canada  
JOURNAL: Journal of Clinical Investigation 97 (7):p1761-1766 1996  
ISSN: 0021-9738  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/50 (Item 50 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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10218597 BIOSIS NO.: 199698673515  
B cell-B cell interaction through intercellular adhesion molecule-1 and  
lymphocyte functional antigen-1 regulates immunoglobulin E synthesis by B  
cells **stimulated** with interleukin-4 and anti-**CD40**  
**antibody**.  
AUTHOR: Katada Yoshinori; Tanaka Toshio; Ochi Hiroshi; Aitani Masakazu;  
Yokota Akira; Kikutani Hitoshi; Suemura Masaki; Kishimoto Tadimitsu(a)  
AUTHOR ADDRESS: (a)Dep. Med. III, Osaka University Medical School 2-2  
Yamada-oka, Suita City, Osaka 565\*\*Japan  
JOURNAL: European Journal of Immunology 26 (1):p192-200 1996  
ISSN: 0014-2980  
DOCUMENT TYPE: Article

RECORD TYPE: Abstract  
LANGUAGE: English

9/3/51 (Item 51 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10194488 BIOSIS NO.: 199698649406  
CD40 and B cell antigen receptor dual triggering of resting B lymphocytes  
turns on a partial germinal center phenotype.  
AUTHOR: Galibert Laurent(a); Burdin Nicolas; De Saint-Vis Blandine; Garrone  
Pierre; Van Kooten Cees; Banchereau Jacques; Rousset Françoise  
AUTHOR ADDRESS: (a)Lab. Immunol. Res., Schering-Plough, 27 Chemin des  
Peupliers, B.P. 11, 69571 Dardilly Cedex\*\*France  
JOURNAL: Journal of Experimental Medicine 183 (1):p77-85 1996  
ISSN: 0022-1007  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/52 (Item 52 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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10178632 BIOSIS NO.: 199698633550  
CD40 ligand-transduced co-stimulation of T cells in the  
development of helper function.  
AUTHOR: Van Essen Dominic; Kikutani Hitoshi; Gray David(a)  
AUTHOR ADDRESS: (a)Dep. Immunol., Royal Postgraduate Med. Sch., Hammersmith  
Hosp., Du Cane Road, London W12 0NN\*\*UK  
JOURNAL: Nature (London) 378 (6557):p620-623 1995  
ISSN: 0028-0836  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/53 (Item 53 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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10139370 BIOSIS NO.: 199698594288  
CD40 cross-linking inhibits specific antibody production by human B cells.  
AUTHOR: Callard Robin E(a); Herbert Joan; Smith Susan H; Armitage Richard J  
; Costelloe Kathy E  
AUTHOR ADDRESS: (a)Cellular Immunol. Unit, Inst. Child Health, 30 Guilford  
Street, London WC1N 1EH\*\*UK  
JOURNAL: International Immunology 7 (11):p1809-1815 1995  
ISSN: 0953-8178  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/54 (Item 54 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

09997888 BIOSIS NO.: 199598452806  
Regulation of murine B cell growth and differentiation by CD30 ligand.  
AUTHOR: Shanebeck Kurt D; Maliszewski Charles R; Kennedy Mary K; Picha  
Kathleen S; Smith Craig A; Goodwin Ray G; Grabstein Kenneth H(a)

AUTHOR ADDRESS: (a)Corixa Corporation, 1124 Columbia St., Suite 464,  
Seattle, WA 98104\*\*USA  
JOURNAL: European Journal of Immunology 25 (8):p2147-2153 1995  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/55 (Item 55 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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09941951 BIOSIS NO.: 199598396869  
Modulation of purified soluble human **CD40 ligand (CD40L)**  
activity by **agonistic** and antagonistic monoclonal **antibodies**.

BOOK TITLE: The 9th International Congress of Immunology  
AUTHOR: Armitage R J; MacDuff B M; Boiani N E; Gibson M G; Morris A E;  
Dower S K; Fanslow W C  
BOOK AUTHOR/EDITOR: 9TH INTERNATIONAL CONGRESS OF IMMUNOLOGY  
AUTHOR ADDRESS: Immunex Res. Dev. Corp., Seattle, WA\*\*USA  
p332 1995  
BOOK PUBLISHER: 9th International Congress of Immunology, San Francisco,  
California, USA  
CONFERENCE/MEETING: Meeting Sponsored by the American Association of  
Immunologists and the International Union of Immunological Societies San  
Francisco, California, USA July 23-29, 1995  
RECORD TYPE: Citation  
LANGUAGE: English

9/3/56 (Item 56 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

09905119 BIOSIS NO.: 199598360037  
Activation of thymic B cells by signals of CD40 molecules plus  
interleukin-10.  
AUTHOR: Inaba Muneo; Inaba Kayo; Fukuba Yoh; Mori Shin-Ichiro; Haruna  
Hiroki; Doi Hiroshi; Adachi Yasushi; Iwai Hiroshi; Hosaka Naoki; Hisha  
Hiroko; Yagita Hideo; Ikehara Susumu(a)  
AUTHOR ADDRESS: (a)First Dep. Pathol., Kansai Med. Univ., 10-15  
Fumizono-cho, Moriguchi City, Osaka 570\*\*Japan  
JOURNAL: European Journal of Immunology 25 (5):p1244-1248 1995  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/57 (Item 57 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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09712339 BIOSIS NO.: 199598167257  
Induction of the transcription factors NF-kappa-B, AP-1 and NF-AT during B  
cell stimulation through the CD40 receptor.  
AUTHOR: Francis Delicia A; Karras James G; Ke Xiao-Yan; Sen Ranjan;  
Rothstein Thomas L(a)  
AUTHOR ADDRESS: (a)Room E-501, Boston Univ. Med. Center, 88 East Newton  
St., Boston, MA 02118\*\*USA  
JOURNAL: International Immunology 7 (2):p151-161 1995  
ISSN: 0953-8178



DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/58 (Item 58 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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09550939 BIOSIS NO.: 199598005857

**Antibodies** to distinct epitopes on the **CD40** molecule co-operate  
in **stimulation** and can be used for the detection of soluble  
**CD40**.

AUTHOR: Bjorck P(a); Braesch-Andersen S; Paulie S  
AUTHOR ADDRESS: (a)Dep. Immunol., Stockholm Univ., S-106 91 Stockholm\*\*  
Sweden

JOURNAL: Immunology 83 (3):p430-437 1994

ISSN: 0019-2805

DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/59 (Item 59 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

09441306 BIOSIS NO.: 199497449676

Decreased expression of the ligand for CD40 in newborn lymphocytes.

AUTHOR: Fuleihan Ramsay(a); Ahern Deborah; Geha Raif S  
AUTHOR ADDRESS: (a)Div. Immunol., Enders 8, Children's Hosp., 300 Longwood  
Ave., Boston, MA 02115\*\*USA

JOURNAL: European Journal of Immunology 24 (8):p1925-1928 1994

ISSN: 0014-2980

DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/60 (Item 60 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

09300364 BIOSIS NO.: 199497308734

Inhibition of human B-cell lymphoma growth by CD40 stimulation.

AUTHOR: Funakoshi Satoshi(a); Longo Dan L; Beckwith Margaret; Conley Denise  
K; Tsarfaty Galia; Tsarfaty Ilan; Armitage Richard J; Fanslow William C;  
Sprigga Melanie K; Murphy William J

AUTHOR ADDRESS: (a)Lab. Leukocyte Biol., Biological Response Modifiers  
Program, NCI-FCRDC, Build. 567, Room 141, Fr\*\*USA

JOURNAL: Blood 83 (10):p2787-2794 1994

ISSN: 0006-4971

DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/61 (Item 61 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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09182659 BIOSIS NO.: 199497191029

Activated CD4+ T cells induce CD40-dependent proliferation of human B cell  
precursors.

AUTHOR: Renard Nathalie(a); Duvert Valerie; Blanchard Dominique; Banchereau Jacques; Saeland Sem  
AUTHOR ADDRESS: (a)Schering-Plough, Lab. Immunological Res., 27 chemin des Peupliers, 69571 Dardilly\*\*France  
JOURNAL: Journal of Immunology 152 (4):p1693-1701 1994  
ISSN: 0022-1767  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/62 (Item 62 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

09132495 BIOSIS NO.: 199497140865  
**CD40 ligand** expression is defective in a subset of patients with common variable immunodeficiency.  
AUTHOR: Farrington Mary(a); Grosmaire Laura S; Nonoyama Shigeaki; Fischer Susanna H; Hollenbaugh Diane; Ledbetter Jeffrey A; Noelle Randolph J; Aruffo Alejandro; Ochs Hans D  
AUTHOR ADDRESS: (a)Dep. Pediatr., Univ. Washington Med. Sch., Seattle, WA 98195\*\*USA  
JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 91 (3):p1099-1103 1994  
ISSN: 0027-8424  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/63 (Item 63 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

08960754 BIOSIS NO.: 199396112255  
B cell activation via **CD40** is required for specific **antibody** production by antigen-**stimulated** human B cells.  
AUTHOR: Nonoyama Shigeaki(a); Hollenbaugh Diane; Aruffo Alejandro; Ledbetter Jeffrey A; Ochs Hans D  
AUTHOR ADDRESS: (a)Dep. Pediatrics, RD-20, Sch. Med., University Washington, Seattle, WA 98195\*\*USA  
JOURNAL: Journal of Experimental Medicine 178 (3):p1097-1102 1993  
ISSN: 0022-1007  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/64 (Item 64 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

08355915 BIOSIS NO.: 000094096438  
**IDENTIFICATION OF A SOURCE OF BIOLOGICALLY ACTIVE CD40 LIGAND**  
AUTHOR: ARMITAGE R J; SATO T A; MACDUFF B M; CLIFFORD K N; ALPERT A R; SMITH C A; FANSLOW W C  
AUTHOR ADDRESS: DEP. IMMUNOL., IMMUNEX RES. DEV. CORPORATION, 51 UNIVERSITY ST., SEATTLE, WASHINGTON 98101.  
JOURNAL: EUR J IMMUNOL 22 (8). 1992. 2071-2076. 1992  
FULL JOURNAL NAME: European Journal of Immunology  
CODEN: EJIMA  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

9/3/65 (Item 1 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11665089 EMBASE No: 2002237167  
3rd International Symposium on Genetic Anticancer Agents  
Wysocki P.J.; Mackiewicz-Wysocka M.  
Dr. P.J. Wysocki, Department of Cancer Immunology, USOMS, Great Poland  
Cancer Center, Garbary Street 15, 61-866 Poznan Poland  
AUTHOR EMAIL: pwysocki@plusnet.pl  
Expert Opinion on Biological Therapy ( EXPERT OPIN. BIOL. THER. ) (United  
Kingdom) 2002, 2/5 (565-568)  
CODEN: EOBT A ISSN: 1471-2598  
DOCUMENT TYPE: Journal ; Conference Paper  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

9/3/66 (Item 2 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11639282 EMBASE No: 2002211352  
CD154-dependent priming of diabetogenic CD4SUP+ T cells dissociated from  
activation of antigen-presenting cells  
Amrani A.; Serra P.; Yamanouchi J.; Han B.; Thiessen S.; Verdaguer J.;  
Santamaria P.  
P. Santamaria, Julia McFarlane Diabetes Res. Center, University of  
Calgary, Faculty of Medicine, 3330 Hospital Drive NW, Calgary, Alta. T2N  
4N1 Canada  
AUTHOR EMAIL: psantama@ucalgary.ca  
Immunity ( IMMUNITY ) (United States) 2002, 16/5 (719-732)  
CODEN: IUNIE ISSN: 1074-7613  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 67

9/3/67 (Item 3 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11617811 EMBASE No: 2002189470  
CD40 ligation conditions dendritic cell antigen-presenting function  
through sustained activation of NF-kappaB  
O'Sullivan B.J.; Thomas R.  
Dr. R. Thomas, Ctr. for Immunology/Cancer Research, University of  
Queensland, Princess Alexandra Hospital, Ipswich Road, Brisbane, QLD 4102  
Australia  
AUTHOR EMAIL: rthomas@medicine.pa.uq.edu.au  
Journal of Immunology ( J. IMMUNOL. ) (United States) 01 JUN 2002,  
168/11 (5491-5498)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 46

9/3/68 (Item 4 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11600847 EMBASE No: 2002172884

Tuning tumor-specific T-cell activation: A matter of costimulation?  
Abken H.; Hombach A.; Heuser C.; Kronfeld K.; Seliger B.  
H. Abken, Tumorgenetik, Klinik I für Innere Medizin, Universität zu Köln,  
D-50931 Köln Germany  
AUTHOR EMAIL: hinrich.abken@medizin.uni-koeln.de;  
Trends in Immunology ( TRENDS IMMUNOL. ) (United Kingdom) 01 MAY 2002,  
23/5 (240-245)  
CODEN: TIRMA ISSN: 1471-4906  
PUBLISHER ITEM IDENTIFIER: S1471490602021804  
DOCUMENT TYPE: Journal ; Review  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 54

9/3/69 (Item 5 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11461143 EMBASE No: 2002029250  
CD40/154 blockade and rejection of islet allografts in the streptozotocin  
and autoimmune diabetic rat  
Kover K.L.; Geng Z.; Hess D.; Benjamin C.; Moore W.V.  
Dr. W.V. Moore, Children's Mercy Hospital, Univ. of Kansas  
Missouri-Kansay City, Section of Pediatric Endocrinology, 2401 Gilham  
Rd., Kansas City, MO 64108 United States  
AUTHOR EMAIL: wmoore@aol.com  
Pediatric Diabetes ( PEDIATR. DIABETES ) (Denmark) 2001, 2/4 (178-183)  
CODEN: PDEIB ISSN: 1399-543X  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 24

9/3/70 (Item 6 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11432931 EMBASE No: 2002005113  
Preclinical evaluation of tolerance induction protocols and islet  
transplantation in non-human primates  
Montgomery S.P.; Hale D.A.; Hirshberg B.; Harlan D.M.; Kirk A.D.  
Dr. D.A. Hale, NIH/Navy Transplant/Autoimmun. Br., N. Inst.  
Diabet./Digest./Kidney Dis., 10 Center Drive, Bethesda, MD 20892 United  
States  
AUTHOR EMAIL: douglash@intra.niddk.nih.gov  
Immunological Reviews ( IMMUNOL. REV. ) (Denmark) 2001, 183/- (214-222)  
CODEN: IMRED ISSN: 0105-2896  
DOCUMENT TYPE: Journal ; Review  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 43

9/3/71 (Item 7 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11231428 EMBASE No: 2001248635  
T-cell immunity against tumors, a delicate balancing act involving  
dendritic cells  
Melief C.J.M.  
C.J.M. Melief, Department of Immunohematology, University Hospital, PO  
box 9600, 2300 RC Leiden Netherlands  
Pathologie Biologie ( PATHOL. BIOL. ) (France) 2001, 49/6 (498-499)  
CODEN: PTBIA ISSN: 0369-8114

DOCUMENT TYPE: Journal ; Conference Paper  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH; FRENCH  
NUMBER OF REFERENCES: 5

9/3/72 (Item 8 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11121908 EMBASE No: 2001137461  
Increased expression of **CD40 ligand** in activated CD4SUP+ T  
lymphocytes of systemic sclerosis patients  
Valentini G.; Romano M.F.; Naclerio C.; Bisogni R.; Lamberti A.; Turco  
M.C.; Venuta S.  
Prof. G. Valentini, Ist. di Clinica Medica Reumatologia, II Universita di  
Napoli, Via Pansini, 5, 80131 Napoli Italy  
AUTHOR EMAIL: reumasun@mbbox.netlab.it  
Journal of Autoimmunity ( J. AUTOIMMUN. ) (United Kingdom) 2000, 15/1  
(61-66)  
CODEN: JOAUE ISSN: 0896-8411  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 33

9/3/73 (Item 9 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11117336 EMBASE No: 2001140203  
Antibodies to CD40 induce a lethal cytokine cascade after syngeneic bone  
marrow transplantation  
Hixon J.A.; Blazar B.R.; Anver M.R.; Wiltout R.H.; Murphy W.F.  
W.J. Murphy, SAIC-Frederick, NCI-FCRDC, Bldg. 567, Frederick, MD 21702  
United States  
AUTHOR EMAIL: murphyw@mail.ncifcrf.gov  
Biology of Blood and Marrow Transplantation ( BIOL. BLOOD MARROW  
TRANSPLANT. ) (United States) 2001, 7/3 (136-143)  
CODEN: BBMTF ISSN: 1083-8791  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 20

9/3/74 (Item 10 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

07675635 EMBASE No: 1999150693  
Dendritic cell secretion of IL-15 is induced by recombinant huCD40LT and  
augments the stimulation of antigen-specific cytolytic T cells  
Kuniyoshi J.S.; Kuniyoshi C.J.; Lim A.M.; Wang F.Y.; Bade E.R.; Lau R.;  
Thomas E.K.; Weber J.S.  
J.S. Kuniyoshi, Department of Molecular Microbiology, Univ. of S.  
California Sch. of Med., Los Angeles, CA 90033 United States  
Cellular Immunology ( CELL. IMMUNOL. ) (United States) 10 APR 1999,  
193/1 (48-58)  
CODEN: CLIMB ISSN: 0008-8749  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 47

9/3/75 (Item 11 from file: 73)

DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

06804938 EMBASE No: 1997087423

Induction and differential regulation of bee venom phospholipase A<sub>2</sub>-specific human IgE and IgG<sub>1</sub> 4 antibodies in vitro requires allergen-specific and nonspecific activation of T and B cells

Akdis C.A.; Blesken T.; Akdis M.; Alkan S.S.; Wuthrich B.; Heusser C.H.; Blaser K.

Dr. C.A. Akdis, Swiss Inst. of Allergy/Asthma Res., Obere Strasse 22,  
CH-7270 Davos Platz Switzerland

Journal of Allergy and Clinical Immunology ( J. ALLERGY CLIN. IMMUNOL. )  
(United States) 1997, 99/3 (345-353)

CODEN: JACIB ISSN: 0091-6749

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 56

9/3/76 (Item 12 from file: 73)

DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

06767813 EMBASE No: 1997049306

Membrane tumor necrosis factor-alpha (TNF-alpha) expressed on HTLV-I-infected T cells mediates a costimulatory signal for B cell activation - Characterization of membrane TNF-alpha

Higuchi M.; Nagasawa K.; Horiuchi T.; Oike M.; Ito Y.; Yasukawa M.; Niho Y.

M. Higuchi, I Department of Internal Medicine, Faculty of Medicine,  
Kyushu University, Fukuoka 812-82 Japan

Clinical Immunology and Immunopathology ( CLIN. IMMUNOL. IMMUNOPATHOL. )  
(United States) 1997, 82/2 (133-140)

CODEN: CLIIA ISSN: 0090-1229

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 35

9/3/77 (Item 13 from file: 73)

DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

05669824 EMBASE No: 1994080407

Activated CD4<sup>sup</sup> + T cells induce CD40-dependent proliferation of human B cell precursors

Renard N.; Duvert V.; Blanchard D.; Banchereau J.; Saeland S.

Immunological Research Laboratory, Schering-Plough, 27 chemin des  
Poupliers, 69571 Dardilly France

Journal of Immunology ( J. IMMUNOL. ) (United States) 1994, 152/4  
(1693-1701)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

9/3/78 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

12918630 21656620 PMID: 11797392

[Is it possible to treat diseases by manipulation of lymphocytes?]

Ogasawara K

Second Department of Pathology, Shiga University of Medical Science,  
School of Medicine, Ohtsu 520-2192.

Rinsho byori. The Japanese journal of clinical pathology (Japan) Dec 2001, 49 (12) p1225-32, ISSN 0047-1860 Journal Code: 2984781R

Document type: Journal Article; Review; Review, Tutorial; English Abstract

Languages: JAPANESE

Main Citation Owner: NLM

Record type: Completed

9/3/79 (Item 2 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

10452562 99451296 PMID: 10520003

Bryostatin and **CD40-ligand** enhance apoptosis resistance and induce expression of cell survival genes in B-cell chronic lymphocytic leukaemia.

Kitada S; Zapata J M; Andreeff M; Reed J C

The Burnham Institute, Program on Apoptosis and Cell Death Research, La Jolla, California, USA.

British journal of haematology (ENGLAND) Sep 1999, 106 (4) p995-1004, ISSN 0007-1048 Journal Code: 0372544

Contract/Grant No.: CA-55164; CA; NCI; CA-69381; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

9/3/80 (Item 3 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

10188320 99182270 PMID: 10084754

Central role for **CD40/CD40 ligand** (CD154) interactions in transplant rejection.

Denton M D; Reul R M; Dharnidharka V R; Fang J C; Ganz P; Briscoe D M

Department of Pediatrics, Children's Hospital, Boston, Massachusetts 02115, USA.

Pediatric transplantation (DENMARK) Feb 1998; 2 (1) p6-15, ISSN 1397-3142 Journal Code: 9802574

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

9/3/81 (Item 4 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

09788182 98214894 PMID: 9554275

A novel method for enhancement of T independent responses.

Dullforce P; Sutton D; Heath A W

Division of Molecular and Genetic Medicine, University of Sheffield Medical School, U.K.

Developments in biological standardization (SWITZERLAND) 1998, 92 p195-8, ISSN 0301-5149 Journal Code: 0427140

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

9/3/82 (Item 5 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

09737508 98180364 PMID: 9521069

Diminished expression of **CD40 ligand** may contribute to the defective humoral immunity in patients with MHC class II deficiency.

Nonoyama S; Etzioni A; Toru H; Ruggerie D P; Lewis D; Pollack S; Aruffo A ; Yata J I; Ochs H D

Department of Pediatrics, University of Washington, Seattle, USA.  
snonoyama.ped@med.tmd.ac.jp

European journal of immunology (GERMANY) Feb 1998, 28 (2) p589-98,  
ISSN 0014-2980 Journal Code: 1273201

Contract/Grant No.: HD17427; HD; NICHD

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

9/3/83 (Item 6 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

09685356 98124483 PMID: 9464836

Induction of interleukin-12 p40 transcript by CD40 ligation via activation of nuclear factor-kappaB.

Yoshimoto T; Nagase H; Ishida T; Inoue J; Nariuchi H

Department of Allergology, The Institute of Medical Science, The University of Tokyo, Japan. yoshimot@ims.u-tokyo.ac.jp

European journal of immunology (GERMANY) Dec 1997, 27 (12) p3461-70,  
ISSN 0014-2980 Journal Code: 1273201

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

9/3/84 (Item 7 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

09652283 98082887 PMID: 9422424

Blockade of the CD40-**CD40 ligand** pathway potentiates the capacity of donor-derived dendritic cell progenitors to induce long-term cardiac allograft survival.

Lu L; Li W; Fu F; Chambers F G; Qian S; Fung J J; Thomson A W

Thomas E. Starzl Transplantation Institute and Department of Surgery, University of Pittsburgh, Pennsylvania 15213, USA.

Transplantation (UNITED STATES) Dec 27 1997, 64 (12) p1808-15,  
ISSN 0041-1337 Journal Code: 0132144

Contract/Grant No.: R01 AI41011; AI; NIAID; R01 DK 49745; DK; NIDDK

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

9/3/85 (Item 8 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

09369928 97244166 PMID: 9088975

CD40 ligation counteracts Fas-induced apoptosis of human dendritic cells.

Bjorck P; Banchereau J; Flores-Romo L

Schering-Plough Laboratory for Immunological Research, Dardilly, France.

International immunology (ENGLAND) Mar 1997, 9 (3) p365-72, ISSN  
0953-8178 Journal Code: 8916182

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM



Record type: Completed

9/3/86 (Item 9 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

09306251 97206088 PMID: 9156649  
Effects of CD40 stimulation in the prevention of human  
EBV-lymphomagenesis.  
Funakoshi S; Taub D D; Asai O; Hirano A; Ruscetti F W; Longo D L; Murphy  
W J  
Jikei University School of Medicine, Tokyo, Japan.  
Leukemia & lymphoma (SWITZERLAND) Jan 1997, 24 (3-4) p187-99, ISSN  
1042-8194 Journal Code: 9007422  
Document type: Journal Article; Review; Review, Tutorial  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

9/3/87 (Item 10 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

08514909 95273359 PMID: 7538666  
CD40 on human endothelial cells: inducibility by cytokines and functional  
regulation of adhesion molecule expression.  
Karmann K; Hughes C C; Schechner J; Fanslow W C; Pober J S  
Molecular Cardiobiology Program, Boyer Center for Molecular Medicine,  
Yale University School of Medicine, New Haven, CT 06536, USA.  
Proceedings of the National Academy of Sciences of the United States of  
America (UNITED STATES) May 9 1995, 92 (10) p4342-6, ISSN 0027-8424  
Journal Code: 7505876  
Contract/Grant No.: R37-HL-36003; HL; NHLBI; RO1-HL-51014; HL; NHLBI;  
T32-AR-07016; AR; NIAMS  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

9/3/88 (Item 1 from file: 399)  
DIALOG(R) File 399:CA SEARCH(R)  
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136215413 CA: 136(14)215413z PATENT  
Computer program and three-dimensional structure of complex of monoclonal  
antibody 5c8 and CD154 for designing and selecting CD154 agonists and  
antagonists for treating immunol. diseases  
INVENTOR(AUTHOR): Karpusas, Michael; Hsu, Yen-ming; Taylor, Frederick R.;  
Zheng, Zhongli  
LOCATION: USA  
ASSIGNEE: Biogen, Inc.  
PATENT: PCT International ; WO 200218445 A2 DATE: 20020307  
APPLICATION: WO 2001US27352 (20010813) \*US PV229933 (20000901) \*US  
PV276452 (20010316)  
PAGES: 470 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07K-016/00A  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI;  
SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; ZA; ZW; AM; AZ; BY; KG;  
KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ  
; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC;  
NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD;

TG

9/3/89 (Item 2 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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136215033 CA: 136(14)215033a JOURNAL  
Co-stimulation blockade, hemophilic inhibitors and tolerance  
AUTHOR(S): Qian, Jiahua; Saenko, Evgueni; Scott, David  
LOCATION: Department of Immunology, Holland Laboratory of the American  
Red Cross, Rockville, MD, 20855, USA  
JOURNAL: Thromb. Haemostasis DATE: 2001 VOLUME: 86 NUMBER: 6 PAGES:  
1343-1344 CODEN: THHADQ ISSN: 0340-6245 LANGUAGE: English PUBLISHER:  
Schattauer GmbH

9/3/90 (Item 3 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 2002 AMERICAN CHEMICAL SOCIETY. All rts. reserv.

136036363 CA: 136(3)36363m PATENT  
Non-agonistic antibodies to human gp39, compositions containing, and  
therapeutic use thereof  
INVENTOR(AUTHOR): Anderson, Darrell R.; Pan, Li Zhen; Hanna, Nabil;  
Rastetter, William H.; Kloetzer, William S.  
LOCATION: USA  
ASSIGNEE: Idec Pharmaceuticals Corporation  
PATENT: PCT International ; WO 200194586 A2 DATE: 20011213  
APPLICATION: WO 2001US18098 (20010606) \*US PV209584 (20000606)  
PAGES: 130 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-015/13A;  
C07K-016/28B; A61K-039/395B; A61P-037/06B; A61K-048/00B; C12N-015/63B;  
C12N-015/86B; C12N-015/861B; C12N-015/867B; C12N-015/11B  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI;  
SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ;  
MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL;  
PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

9/3/91 (Item 4 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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135151637 CA: 135(11)151637v PATENT  
CD40-binding APC-activating molecules  
INVENTOR(AUTHOR): Thomas, David; De Boer, Mark; Res, Pieter C. J. M.;  
Simons, Peter J.  
LOCATION: USA  
ASSIGNEE: Tanox, Inc.  
PATENT: PCT International ; WO 200156603 A1 DATE: 20010809  
APPLICATION: WO 2001US3378 (20010201) \*US PV178934 (20000201)  
PAGES: 40 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: A61K-039/395A;  
C07K-016/00B; C07K-016/28B; C12N-005/10B; C12N-005/12B; C12N-015/00B;  
C12N-015/11B; C12N-015/13B; C12N-015/12B; C12N-015/63B  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AU; AZ; BA; BB; BG; BR; BY; BZ; CA;  
CN; CR; CU; CZ; DM; DZ; EE; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE;  
KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ;  
NO; NZ; PL; RO; RU; SD; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN;  
YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM;  
; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI;

FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

9/3/92 (Item 5 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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135136414 CA: 135(10)136414b PATENT

CD40 ligand adjuvant for respiratory syncytial virus

INVENTOR(AUTHOR): Tripp, Ralph A.; Anderson, Larry J.; Brown, Michael P.

LOCATION: USA

ASSIGNEE: Government of the United States of America, as Represented by the Secretary of the Department of Health and Human Services

PATENT: PCT International ; WO 200156602 A2 DATE: 20010809

APPLICATION: WO 2001US3584 (20010202) \*US PV179905 (20000202)

PAGES: 52 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: A61K-039/39A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

9/3/93 (Item 6 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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135018557 CA: 135(2)18557c PATENT

Treatment of autoimmune diseases by an agonistic CD40-binding protein

INVENTOR(AUTHOR): Mauri, Claudia; Mars, Leonaredus Theodorus; Londei, Marco

LOCATION: UK,

ASSIGNEE: The Mathilda and Terence Kennedy Institute of Rheumatology

PATENT: PCT International ; WO 0137870 A1 DATE: 20010531

APPLICATION: WO 2000GB4511 (20001127) \*GB 9927757 (19991125)

PAGES: 41 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: A61K-039/395A; G01N-033/53B; G01N-033/577B; A61P-037/02B DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

9/3/94 (Item 7 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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134294513 CA: 134(21)294513s PATENT

Process for inducing functional tolerance to gene transfer products

INVENTOR(AUTHOR): Andersson, Goran K.

LOCATION: USA

ASSIGNEE: Biotransplant Incorporated

PATENT: PCT International ; WO 0125398 A2 DATE: 20010412

APPLICATION: WO 2000US26946 (20000929) \*US PV157233 (19991001)

PAGES: 69 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;

CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW ; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

9/3/95 (Item 8 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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134236228 CA: 134(17)236228s PATENT  
CD40 ligand and CD40 agonist compositions and methods of use  
INVENTOR(AUTHOR): Ahuja, Seema S.; Bonewald, Lynda F.  
LOCATION: USA  
ASSIGNEE: Board of Regents, the University of Texas System  
PATENT: PCT International ; WO 200116180 A2 DATE: 20010308  
APPLICATION: WO 2000US23276 (20000824) \*US PV151250 (19990827)  
PAGES: 117 pp. CODEN: PIXXD2 LANGUAGE: English, CLASS: C07K-014/705A; C07K-016/28B; A61K-038/17B; A61K-039/395B; A61P-019/10B  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW ; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

9/3/96 (Item 9 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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131270955 CA: 131(20)270955z PATENT  
Monoclonal antibodies to CD40 ligand, pharmaceutical composition comprising the same and hybridomas producing the same  
INVENTOR(AUTHOR): Armitage, Richard J.; Fanslow, William C.; Spriggs, Melanie K.  
LOCATION: USA  
ASSIGNEE: Immunex Corporation  
PATENT: United States ; US 5961974 A DATE: 19991005  
APPLICATION: US 249189 (19940524) \*US 783707 (19911025) \*US 805723 (19911205) \*US 969703 (19921023)  
PAGES: 59 pp., Cont.-in-part of U.S. Ser. No. 969,703, abandoned.  
CODEN: USXXAM LANGUAGE: English CLASS: 424154100; C07K-016/28A; A61K-039/395B; C12N-005/12B

9/3/97 (Item 10 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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131270947 CA: 131(20)270947y PATENT  
Recombinant soluble CD40 ligand polypeptide and pharmaceutical composition containing the same  
INVENTOR(AUTHOR): Armitage, Richard J.; Fanslow, William C.; Spriggs, Melanie K.; Srinivasan, Subhashini; Gibson, Marylou G.; Morris, Arvia E.; McGrew, Jeffrey T.  
LOCATION: USA  
ASSIGNEE: Immunex Corporation  
PATENT: United States ; US 5962406 A DATE: 19991005

APPLICATION: US 484624 (19950607) \*US 783707 (19911025) \*US 805723  
(19911205) \*US 969703 (19921023) \*US 249189 (19940524)  
PAGES: 64 pp., Cont.-in-part of U.S. Ser. No. 249,189. CODEN: USXXAM  
LANGUAGE: English CLASS: 514008000; A61K-038/18A; C07K-014/435B

9/3/98 (Item 11 from file: 399)  
DIALOG(R) File 399:CA SEARCH(R)  
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129301687 CA: 129(23)301687d PATENT  
Methods for proliferating and differentiating B cells with high density  
membrane CD40 ligand  
INVENTOR(AUTHOR): Kehry, Marilyn; Castle, Brian  
LOCATION: USA  
ASSIGNEE: Boehringer Ingelheim Pharmaceuticals, Inc.  
PATENT: United States ; US 5817516 A DATE: 19981006  
APPLICATION: US 431055 (19950428) \*US 234580 (19940428)  
PAGES: 37 pp. Cont.-in-part of U.S. Ser. No. 234,580, abandoned. CODEN:  
USXXAM LANGUAGE: English CLASS: 435377000; C12N-005/02A; C12N-005/08B

9/3/99 (Item 12 from file: 399)  
DIALOG(R) File 399:CA SEARCH(R)  
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128229364 CA: 128(19)229364f PATENT  
Treatment of antigen presenting cells to modulate antigen presenting cell  
function  
INVENTOR(AUTHOR): Brooks, Stephen P.; Tomasi, Thomas B.; Bernstein, Zale  
P.  
LOCATION: USA  
ASSIGNEE: Health Research Inc.  
PATENT: PCT International ; WO 9810056 A1 DATE: 19980312  
APPLICATION: WO 97US15431 (19970902) \*US 25332 (19960903)  
PAGES: 53 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-005/00A  
DESIGNATED COUNTRIES: AU; CA; JP; KP; KR; NZ DESIGNATED REGIONAL: AT; BE  
; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

9/3/100 (Item 13 from file: 399)  
DIALOG(R) File 399:CA SEARCH(R)  
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128087637 CA: 128(8)87637w JOURNAL  
Agonistic activity of a CD40-specific single-chain Fv constructed from  
the variable regions of mAb G28-5  
AUTHOR(S): Ledbetter, Jeffrey A.; Francisco, Joseph A.; Siegall, Clay B.;  
Gilliland, Lisa K.; Hollenbaugh, Diane; Aruffo, Alejandro; Siadak, Anthony  
W.; Mischel-Petty, Nicole; Grosmaire, Laura S.; Gordon, Marcia L.; Brown,  
T. Joseph; Moran-Davis, Patti; Mittler, Robert S.; Kiener, Peter A.;  
Nadler, Steven G.  
LOCATION: Bristol-Myers Squibb Pharmaceutical Research Institute, Seattle  
, WA, 98121, USA  
JOURNAL: Crit. Rev. Immunol. DATE: 1997 VOLUME: 17 NUMBER: 5 & 6  
PAGES: 427-435 CODEN: CCRIDE ISSN: 1040-8401 LANGUAGE: English  
PUBLISHER: Begell House, Inc.

9/3/101 (Item 14 from file: 399)  
DIALOG(R) File 399:CA SEARCH(R)  
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127076013 CA: 127(6)76013t PATENT

Stimulation of antibody release by B lymphocytes with  
granulocyte-macrophage colony stimulating factor, interleukins,  
interferons, and universal T-cell epitopes

INVENTOR(AUTHOR): Mond, James J.; Snapper, Clifford M.

LOCATION: USA

ASSIGNEE: Henry M. Jackson Foundation for the Advancement of Military  
Medicine

PATENT: PCT International ; WO 9720940 A1 DATE: 19970612

APPLICATION: WO 96US19327 (19961205) \*US 568343 (19951206)

PAGES: 60 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-015/62A;  
A61K-038/19B; A61K-038/20B; A61K-039/385B; A61K-039/44B

DESIGNATED COUNTRIES: AU; CA; JP DESIGNATED REGIONAL: AT; BE; CH; DE; DK  
; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE .

9/3/102 (Item 15 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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125284972 CA: 125(22)284972r PATENT

Compositions and methods for stimulating antibody class switching

INVENTOR(AUTHOR): Mond, James J.; Snapper, Clifford M.

LOCATION: USA

ASSIGNEE: Uniformed Services University of the Health Sciences

PATENT: PCT International ; WO 9627390 A1 DATE: 960912

APPLICATION: WO 96US2263 (960307) \*US 400322 (950308)

PAGES: 42 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: A61K-039/385A;  
A61K-039/39B; A61K-038/20B; A61K-038/18B; A61K-038/17B; A61K-031/715B;  
A61K-039/385J; A61K-038/18J; A61K-038/17J; A61K-039/385K; A61K-038/17K;  
A61K-031/715K DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BB; BG; BR; BY; CA  
; CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; HU; IS; JP; KE; KG; KP; KR; KZ;  
LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD;  
SE; SG; SI DESIGNATED REGIONAL: KE; LS; MW; SD; SZ; UG; AT; BE; CH; DE; DK  
; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM;  
GA; GN; ML

9/3/103 (Item 16 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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124053716 CA: 124(5)53716y PATENT

High density membrane-bound CD40 ligand for proliferating and  
differentiating B cells

INVENTOR(AUTHOR): Kehry, Marilyn; Castle, Brian E.

LOCATION: USA

ASSIGNEE: Boehringer Ingelheim Pharmaceuticals, Inc.

PATENT: PCT International ; WO 9529935 A1 DATE: 951109

APPLICATION: WO 95US5448 (950428) \*US 234580 (940428)

PAGES: 73 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07K-014/00A;  
C07K-014/705B; C07K-014/71B; C07K-014/725B; C12N-005/00B; C12N-005/02B;  
C12N-005/06B DESIGNATED COUNTRIES: CA; JP; MX DESIGNATED REGIONAL: AT; BE  
; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

9/3/104 (Item 17 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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123141712 CA: 123(11)141712d PATENT

Compositions and method for stimulating antibody release by B lymphocytes

INVENTOR(AUTHOR): Snapper, Clifford M.; Mond, James J.

LOCATION: USA

ASSIGNEE: United States Dept. of the Army

ds

Set	Items	Description
S1	12	FGK45
S2	7	RD S1 (unique items)
S3	112	AGONIST? (10N) (ANTI(W) CD40)
S4	55	RD S3 (unique items)

? t s4/3/all

4/3/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13741782 BIOSIS NO.: 200200370603  
Activation of antigen presenting cells (APCs) through toll like receptor (TLR) 9 or CD40 reverses tolerance and precipitates autoimmune disease.  
AUTHOR: Segal Benjamin Matthew(a); Ichikawa Hiroshi Travis  
AUTHOR ADDRESS: (a)Neurology, University of Rochester School of Medicine, 601 Elmwood Avenue, Box 605, Rochester, NY, 14642\*\*USA  
JOURNAL: FASEB Journal 16 (5):pA1066 March 22, 2002  
MEDIUM: print  
CONFERENCE/MEETING: Annual Meeting of Professional Research Scientists on Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002  
ISSN: 0892-6638  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/2 (Item 2 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13735185 BIOSIS NO.: 200200364006  
Tumor growth enhances cross-presentation leading to limited T cell activation without tolerance.  
AUTHOR: Nguyen Linh T; Elford Alisha R; Murakami Kiichi; Garza Kristine M; Schoenberger Stephen P; Odermatt Bernhard; Speiser Daniel E; Ohashi Pamela S(a)  
AUTHOR ADDRESS: (a)Ontario Cancer Institute, 610 University Ave., 8-327, Toronto, ON, M5G 2M9\*\*Canada E-Mail: pohashi@uhnres.utoronto.ca  
JOURNAL: Journal of Experimental Medicine 195 (4):p423-435 February 18, 2002  
MEDIUM: print  
ISSN: 0022-1007  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/3 (Item 3 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13730225 BIOSIS NO.: 200200359046  
Uptake of apoptotic antigen-coupled cells by lymphoid dendritic cells and cross-priming of CD8+ T cells produce active immune unresponsiveness.  
AUTHOR: Ferguson Thomas A(a); Herndon John; Elzey Bennett; Griffith Thomas S; Schoenberger Steve; Green Douglas R  
AUTHOR ADDRESS: (a)Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, 660 South Euclid Street, Box 8096, St. Louis, MO, 63110\*\*USA E-Mail: Ferguson@vision.wustl.edu  
JOURNAL: Journal of Immunology 168 (11):p5589-5595 June 1, 2002  
MEDIUM: print  
ISSN: 0022-1767

DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/4 (Item 4 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13723317 BIOSIS NO.: 200200352138  
CD154-dependent priming of diabetogenic CD4+ T cells dissociated from  
activation of antigen-presenting cells.  
AUTHOR: Amrani Abdelaziz; Serra Pau; Yamanouchi Jun; Han Bingye; Thiessen  
Shari; Verdaguer Joan; Santamaria Pere(a)  
AUTHOR ADDRESS: (a)Department of Microbiology and Infectious Diseases and  
Julia McFarlane Diabetes Research Center, Faculty of Medicine, University  
of Calgary, 3330 Hospital Drive N.W., Calgary, AB, T2N 4N1\*\*Canada  
E-Mail: psantama@ucalgary.ca  
JOURNAL: Immunity 16 (5):p719-732 May, 2002  
MEDIUM: print  
ISSN: 1074-7613  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/5 (Item 5 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13722623 BIOSIS NO.: 200200351444  
CD40 ligation in the presence of self-reactive CD8 T cells leads to severe  
immunopathology.  
AUTHOR: Roth Evelyn; Schwartzkopff Johannes; Pircher Hanspeter(a)  
AUTHOR ADDRESS: (a)Department of Immunology, Institute for Medical  
Microbiology and Hygiene, University of Freiburg, Hermann-Herder-Strasse  
11, D-79104, Freiburg\*\*Germany E-Mail: pircher@UKL.uni-freiburg.de  
JOURNAL: Journal of Immunology 168 (10):p5124-5129 May 15, 2002  
MEDIUM: print  
ISSN: 0022-1767  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/6 (Item 6 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13680681 BIOSIS NO.: 200200309502  
CD40 stimulation leads to effective therapy of CD40- tumors through  
induction of strong systemic cytotoxic T lymphocyte immunity.  
AUTHOR: van Mierlo Geertje J D; den Boer Annemieke Th; Medema Jan Paul; van  
der Voort Ellen I H; Fransen Marieke F; Offringa Rienk; Melief Cornelis J  
M; Toes Rene E M(a)  
AUTHOR ADDRESS: (a)Department of Immunohematology and Bloodtransfusion,  
Leiden University Medical Center, 2300 RC, Leiden\*\*Netherlands E-Mail:  
R.E.M.Toes@Lumc.nl  
JOURNAL: Proceedings of the National Academy of Sciences of the United  
States of America 99 (8):p5561-5566 April 16, 2002  
MEDIUM: print  
ISSN: 0027-8424  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract



LANGUAGE: English

4/3/7 (Item 7 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13631642 BIOSIS NO.: 200200260463  
Dendritic cells cultured in anti-CD40 antibody-immobilized plates elicit a highly efficient peptide-specific T-cell response.  
AUTHOR: Osada Takuya(a); Nagawa Hirokazu; Takahashi Tsuyoshi; Tsuno Nelson H; Kitayama Joji; Shibata Yoichi  
AUTHOR ADDRESS: (a)Department of Surgery, Duke University Medical Center, Research Dr, 407 MSRB, Durham, NC, 27710\*\*USA E-Mail: osada001@mc.duke.edu  
JOURNAL: Journal of Immunotherapy 25 (2):p176-184 March-April, 2002  
MEDIUM: print  
ISSN: 1524-9557  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/8 (Item 8 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13612394 BIOSIS NO.: 200200241215  
Human anti-CD40 antagonistic antibodies inhibit the proliferation of human B cell non-Hodgkin's lymphoma.  
AUTHOR: Weng Wen-Kai(a); Wang Changyu; Chu Keting; Levy Ronald(a)  
AUTHOR ADDRESS: (a)Medicine/Oncology, Stanford University, Stanford, CA\*\*USA  
JOURNAL: Blood 98 (11 Part 1):p466a November 16, 2001  
MEDIUM: print  
CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001  
ISSN: 0006-4971  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/9 (Item 9 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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13581112 BIOSIS NO.: 200200209933  
Retinoic acid and CD40 ligand co-operate to promote induction of immune accessory molecules and immune responses to human myeloid leukemia cells.  
AUTHOR: Kato Kazunori(a); Yoshida Mitsuzi(a); Takaue Yoichi(a); Kipps Thomas J; Wakasugi Hiro(a)  
AUTHOR ADDRESS: (a)Pharmacology Div., Natl. Cancer Ctr. Res. Inst., Chuoku, Tokyo\*\*Japan  
JOURNAL: Blood 98 (11 Part 1):p589a November 16, 2001  
MEDIUM: print  
CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001  
ISSN: 0006-4971  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/10 (Item 10 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)

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13448324 BIOSIS NO.: 200200077145

Enhancing effects of anti-CD40 treatment on the immune response of  
SCID-bovine mice to Trypanosoma congolense infection.

AUTHOR: Haas Karen M; Taylor Katherine A; MacHugh Niall D; Kreeger John M;  
Estes D Mark(a)

AUTHOR ADDRESS: (a)Department of Veterinary Pathobiology, University of  
Missouri, Columbia, MO, 65211\*\*USA E-Mail: EstesD@missouri.edu

JOURNAL: Journal of Leukocyte Biology 70 (6):p931-940 December, 2001

MEDIUM: print

ISSN: 0741-5400

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

4/3/11 (Item 11 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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13285840 BIOSIS NO.: 200100492989

Dendritic cells induce peripheral T cell unresponsiveness under steady  
state conditions in vivo.

AUTHOR: Hawiger Daniel; Inaba Kayo; Dorsett Yair; Guo Ming; Mahnke Karsten;  
Rivera Miguel; Ravetch Jeffrey V; Steinman Ralph M; Nussenzweig Michel C  
(a)

AUTHOR ADDRESS: (a)Department of Molecular Immunology, HHMI, 1230 York  
Ave., RRB Rm. 470, New York, NY, 10021: nussen@mail.rockefeller.edu\*\*USA

JOURNAL: Journal of Experimental Medicine 194 (6):p769-779 September 17,  
2001

MEDIUM: print

ISSN: 0022-1007

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

4/3/12 (Item 12 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

13267172 BIOSIS NO.: 200100474321

CD40 stimulation accelerates deletion of tumor-specific CD8+ T cells in the  
absence of tumor-antigen vaccination.

AUTHOR: Kedl Ross M(a); Jordan Michael; Potter Terence; Kappler John;  
Marrack Philippa; Dow Steven

AUTHOR ADDRESS: (a)3M Center, 3M Pharmaceuticals, Building 270-2S-06, St.  
Paul, MN, 55144-1000: rmkedl@mmm.com\*\*USA

JOURNAL: Proceedings of the National Academy of Sciences of the United  
States of America 98 (19):p10811-10816 September 11, 2001

MEDIUM: print

ISSN: 0027-8424

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

4/3/13 (Item 13 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

13004788 BIOSIS NO.: 200100211937

Stimulation of dendritic cells via CD40 enhances immune responses to Mycobacterium tuberculosis infection.

AUTHOR: Demangel Caroline; Palendira Umaimainthan; Feng Carl G; Heath Andrew W; Bean Andrew G D; Britton Warwick J(a)

AUTHOR ADDRESS: (a)Centenary Institute of Cancer Medicine and Cell Biology, Newtown, NSW, 2042: wbritton@medicine.usyd.edu.au\*\*Australia

JOURNAL: Infection and Immunity 69 (4):p2456-2461 April, 2001

MEDIUM: print

ISSN: 0019-9567

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

4/3/14 (Item 14 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

12980704 BIOSIS NO.: 200100187853

Increase in tonsillar germinal centre B-1 cell numbers in IgA nephropathy (IgAN) patients and reduced susceptibility to Fas-mediated apoptosis.

AUTHOR: Kodama S; Suzuki M; Arita M; Mogi G(a)

AUTHOR ADDRESS: (a)Department of Otolaryngology, Oita Medical University, Hazama-machi, Oita, 879-5593: gmog@oita-med.ac.jp\*\*Japan

JOURNAL: Clinical and Experimental Immunology 123 (2):p301-308 February, 2001

MEDIUM: print

ISSN: 0009-9104

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

4/3/15 (Item 15 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

12954277 BIOSIS NO.: 200100161426

CD40 ligation for immunotherapy of solid tumours.

AUTHOR: Todryk Stephen M; Tutt Alison L; Green Michael H A; Smallwood J A; Halanek Nicole; Dalgleish Angus G; Glennie Martin J(a)

AUTHOR ADDRESS: (a)Tenovus Research Laboratory, Cancer Sciences Division, School of Medicine, General Hospital, Southampton, SO16 6YD: M.J.Glennie@soton.ac.uk\*\*UK

JOURNAL: Journal of Immunological Methods 248 (1-2):p139-147 1 February, 2001

MEDIUM: print

ISSN: 0022-1759

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

4/3/16 (Item 16 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

12884199 BIOSIS NO.: 200100091348

Anti-CD40 treatment of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-exposed C57Bl/6 mice induces activation of antigen presenting cells yet fails to

overcome TCDD-induced suppression of allograft immunity.  
AUTHOR: Shepherd David M(a); Steppan Linda B; Hedstrom Olaf R; Kerkvliet Nancy I  
AUTHOR ADDRESS: (a)Department of Environmental and Molecular Toxicology,  
Oregon State University, Agricultural Life Sciences Building, Room 1007,  
Corvallis, OR, 97331: David.Shepherd@orst.edu\*\*USA  
JOURNAL: Toxicology and Applied Pharmacology 170 (1):p10-22 January 1,  
2001  
MEDIUM: print  
ISSN: 0041-008X  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/17 (Item 17 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12832356 BIOSIS NO.: 200100039505  
Therapeutic activity of **agonistic anti-CD40** mAb in a  
chronic autoimmune inflammatory process.  
AUTHOR: Mauri C(a); Mars L T(a); Londei M(a)  
AUTHOR ADDRESS: (a)Kennedy Institute of Rheumatology, London\*\*UK  
JOURNAL: FASEB Journal 14 (6):pA1101 April 20, 2000  
MEDIUM: print  
CONFERENCE/MEETING: Joint Annual Meeting of the American Association of  
Immunologists and the Clinical Immunology Society Seattle, Washington, USA  
May 12-16, 2000  
ISSN: 0892-6638  
RECORD TYPE: Citation  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/18 (Item 18 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12821470 BIOSIS NO.: 200100028619  
B cell immunopoiesis: Visualizing the impact of CD40 engagement on the  
course of T cell-independent immune responses in an Ig transgenic system.  
AUTHOR: Erickson Loren D; Vogel Laura A; Cascalho Marilia; Wong Jamie; Wabl  
Matthias; Durell Brigit G; Noelle Randolph J(a)  
AUTHOR ADDRESS: (a)Department of Microbiology, Dartmouth Medical School, 1  
Medical Center Drive, Lebanon, NH, 03756: rjn@dartmouth.edu\*\*USA  
JOURNAL: European Journal of Immunology 30 (11):p3121-3131 November, 2000  
MEDIUM: print  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/19 (Item 19 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12666263 BIOSIS NO.: 200000419765  
Therapeutic activity of agonistic monoclonal antibodies against CD40 in a  
chronic autoimmune inflammatory process.  
AUTHOR: Mauri Claudia; Mars Lennart T; Londei Marco(a)

AUTHOR ADDRESS: (a)The Kennedy Institute of Rheumatology, Imperial College  
School of Medicine, 1 Aspenlea Road, London, W6 8LH\*\*UK  
JOURNAL: Nature Medicine 6 (6):p673-679 June, 2000  
MEDIUM: print  
ISSN: 1078-8956  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/20 (Item 20 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12604864 BIOSIS NO.: 200000358366  
**Agonistic properties and in vivo antitumor activity of the anti  
-CD40 antibody SGN-14.**  
AUTHOR: Francisco Joseph A; Donaldson Karen L; Chace Dana; Siegall Clay B;  
Wahl Alan F(a)  
AUTHOR ADDRESS: (a)Department of Biochemistry, Seattle Genetics, Inc.,  
22215 26th Avenue SE, Bothell, WA, 98021\*\*USA  
JOURNAL: Cancer Research 60 (12):p3225-3231 June 15, 2000  
MEDIUM: print  
ISSN: 0008-5472  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/21 (Item 21 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12571721 BIOSIS NO.: 200000325223  
**CD40-CD40 ligand interactions in vivo regulate migration of antigen-bearing  
dendritic cells from the skin to draining lymph nodes.**  
AUTHOR: Moodycliffe Angus M; Shreedhar Vijay; Ullrich Stephen E;  
Walterscheid Jeffrey; Bucana Corazon; Kripke Margaret L; Flores-Romo  
Leopoldo(a)  
AUTHOR ADDRESS: (a)Inq.: Ms. Sue Adams, Dept. of Immunology-178, M.D.  
Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX, 77030\*\*USA  
JOURNAL: Journal of Experimental Medicine 191 (11):p2011-2020 June 5, 2000  
MEDIUM: print  
ISSN: 0022-1007  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/22 (Item 22 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12538090 BIOSIS NO.: 200000291592  
**Dexamethasone and cyclosporin A affect the maturation of monocyte-derived  
dendritic cells differently.**  
AUTHOR: Manome Hideaki; Aiba Setsuy; Singh Sanjay; Yoshino Yumiko; Tagami  
Hachiro  
AUTHOR ADDRESS: (a)Department of Dermatology, Tohoku University School of  
Medicine, 1-1 Seiryomachi, Aobaku, Sendai, 980-8574\*\*Japan  
JOURNAL: International Archives of Allergy and Immunology 122 (1):p76-84

May, 2000  
MEDIUM: print.  
ISSN: 1018-2438  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/23 (Item 23 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12464970 BIOSIS NO.: 200000218472  
Depressed CD40 ligand expression contributes to reduced gamma interferon production in human tuberculosis.  
AUTHOR: Samten Buka; Thomas Elaine K; Gong Jianhua; Barnes Peter F(a)  
AUTHOR ADDRESS: (a)Center for Pulmonary and Infectious Disease Control, University of Texas Health Center at Tyler, 11937 U.S. Highway 271, Tyler, TX, 75708-3154\*\*USA  
JOURNAL: Infection and Immunity 68 (5):p3002-3006 May, 2000  
ISSN: 0019-9567  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/24 (Item 24 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12401824 BIOSIS NO.: 200000155326  
Therapeutic activity of anti CD40 agonistic mAbs in an autoimmune inflammatory process.  
AUTHOR: Mars Lennart T(a); Mauri Claudia(a); Londei Marco(a)  
AUTHOR ADDRESS: (a)Kennedy Institute of Rheumatology, Hammersmith, 1 Aspenlea Road, W6 8LH, London\*\*UK  
JOURNAL: Immunology. 98 (suppl. 1):p100 Dec., 1999  
CONFERENCE/MEETING: Joint Congress of the British Society for Immunology and the British Society for Allergy & Clinical Immunology. Harrogate, England, UK November 30-December 03, 1999  
SPONSOR: British Society for Allergy & Clinical Immunology  
ISSN: 0019-2805  
RECORD TYPE: Citation  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/25 (Item 25 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12355175 BIOSIS NO.: 200000108677  
Pararosaniline fixation for detection of co-stimulatory molecules, cytokines, and specific antibody.  
AUTHOR: Schrijver Ingrid A(a); Melief Marie-Jose; van Meurs Marjan; Companjen Arjen R; Laman Jon D  
AUTHOR ADDRESS: (a)Dept. of Immunology, Erasmus University Rotterdam, 3000 DR, Rotterdam\*\*Netherlands  
JOURNAL: Journal of Histochemistry and Cytochemistry 48 (1):p95-103 Jan., 2000  
ISSN: 0022-1554  
DOCUMENT TYPE: Article

RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/26 (Item 26 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12349382 BIOSIS NO.: 200000102884  
CD40 signals apoptosis through FAN-regulated activation of the  
sphingomyelin-ceramide pathway.  
AUTHOR: Segui Bruno; Andrieu-Abadie Nathalie; Adam-Klages Sabine; Meilhac  
Olivier; Kreder Dirk; Garcia Virginie; Bruno Alain P; Jaffrezou  
Jean-Pierre; Salvayre Robert; Kroenke Martin; Levade Thierry(a)  
AUTHOR ADDRESS: (a)Laboratoire de Biochimie, INSERM U466, Institut Louis  
Bugnard, Centre Hospitalier Universitaire Rangueil, 1 Avenue Jean  
Poulhes, Batiment L3, F-31403, Toulouse Cedex 4\*\*France  
JOURNAL: Journal of Biological Chemistry 274 (52):p37251-37258 Dec. 24,  
1999  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/27 (Item 27 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11403258 BIOSIS NO.: 199800184590  
The induction of a protective response in Leishmania major-infected BALB/c  
mice with anti-CD40 mAb.  
AUTHOR: Ferlin Walter G; Von Der Weid Thierry; Cottrez Francoise; Ferrick  
David A; Coffman Robert L; Howard Maureen C(a)  
AUTHOR ADDRESS: (a)Anergen Inc., 301 Penobscot Dr., Redwood City, CA 94036  
\*\*USA  
JOURNAL: European Journal of Immunology 28 (2):p525-531 Feb., 1998  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/28 (Item 28 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11117709 BIOSIS NO.: 199799738854  
Precursor B cells for autoantibody production in genomically Fas-intact  
autoimmune disease are not subject to Fas-mediated immune elimination.  
AUTHOR: Hirose Sachiko; Yan Kwangseok; Abe Masaaki; Jiang Yi; Hamano  
Yoshitomo; Tsurui Hiromicfhi; Shirai Toshikazu(a)  
AUTHOR ADDRESS: (a)Dep. Pathol., Juntendo Univ. Sch. Med, 2-1-1 Hongo,  
Bunkyo-ku, Tokyo 113\*\*Japan  
JOURNAL: Proceedings of the National Academy of Sciences of the United  
States of America 94 (17):p9291-9295 1997  
ISSN: 0027-8424  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/29 (Item 29 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

09436213 BIOSIS NO.: 199497444583  
Monoclonal antibodies to murine CD40 define two distinct functional epitopes.  
AUTHOR: Heath Andrew W; Wu Wei Wei; Howard Maureen C(a)  
AUTHOR ADDRESS: (a)DNAX Res. Inst., 901 California Ave., Palo Alto, CA 94304\*\*USA  
JOURNAL: European Journal of Immunology 24 (8):p1828-1834 1994  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/30 (Item 30 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

07861309 BIOSIS NO.: 000092120675  
STIMULATION OF PROTEIN TYROSINE PHOSPHORYLATION PHOSPHOINOSITIDE TURNOVER AND MULTIPLE PREVIOUSLY UNIDENTIFIED SERINE THREONINE-SPECIFIC PROTEIN KINASES BY THE PAN-B-CELL RECEPTOR CD40-BP50 AT DISCRETE DEVELOPMENTAL STAGES OF HUMAN B-CELL ONTOGENY  
AUTHOR: UCKUN F M; SCHIEVEN G L; DIBIRDIK I; CHANDAN-LANGLIE M; TUEL-AHLGREN L; LEDBETTER J A  
AUTHOR ADDRESS: TUMOR IMMUNOLOGY LABORATORY, BOX 356, UMHC, 420 DELAWARE ST. S.E., MINNEAPOLIS, MINN. 55455.  
JOURNAL: J BIOL CHEM 266 (26). 1991. 17478-17485. 1991  
FULL JOURNAL NAME: Journal of Biological Chemistry  
CODEN: JBCHA  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

4/3/31 (Item 31 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

07422961 BIOSIS NO.: 000091028950  
ANALYSIS OF EXPRESSION AND FUNCTION OF CD40 ON NORMAL AND LEUKEMIC HUMAN B CELL PRECURSORS  
AUTHOR: LAW C-L; WORMANN B; LEBIEN T W  
AUTHOR ADDRESS: BOX 609, UMHC, DEP. LAB. MED. PATHOL., UNIV. MINN., MINNEAPOLIS, MINN. 55455, USA.  
JOURNAL: LEUKEMIA (BALTIMORE) 4 (11). 1990. 732-738. 1990  
FULL JOURNAL NAME: LEUKEMIA (Baltimore)  
CODEN: LEUKE  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

4/3/32 (Item 1 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11639282 EMBASE No: 2002211352  
CD154-dependent priming of diabetogenic CD4SUP+ T cells dissociated from activation of antigen-presenting cells  
Amrani A.; Serra P.; Yamanouchi J.; Han B.; Thiessen S.; Verdaguer J.; Santamaria P.  
P. Santamaria, Julia McFarlane Diabetes Res. Center, University of Calgary, Faculty of Medicine, 3330 Hospital Drive NW, Calgary, Alta. T2N



4N1 Canada

AUTHOR EMAIL: psantama@ucalgary.ca

Immunity ( IMMUNITY ) (United States) 2002, 16/5 (719-732)

CODEN: IUNIE ISSN: 1074-7613

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 67

4/3/33 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

11617823 EMBASE No: 2002189482

Uptake of apoptotic antigen-coupled cells by lymphoid dendritic cells and cross-priming of CD8SUP+ T cells produce active immune unresponsiveness

Ferguson T.A.; Herndon J.; Elzey B.; Griffith T.S.; Schoenberger S.; Green D.R.

Dr. T.A. Ferguson, Department of Ophthalmology, Washington Univ. School of Medicine, Box 8096, 660 South Euclid Street, St. Louis, MO 63110 United States

AUTHOR EMAIL: Ferguson@vision.wustl.edu

Journal of Immunology ( J. IMMUNOL. ) (United States) 01 JUN 2002, 168/11 (5589-5595)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 38

4/3/34 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

11575762 EMBASE No: 2002147301

CD40 stimulation leads to effective therapy of CD40SUP- tumors through induction of strong systemic cytotoxic T lymphocyte immunity

Van Mierlo G.J.D.; Den Boer A.T.; Medema J.P.; Van der Voort E.I.H.; Fransen M.F.; Offringa R.; Melief C.J.M.; Toes R.E.M.

R.E.M. Toes, Departments of Immunohematology, Leiden University Medical Center, P.O. Box 9600, 2300 RC, Leiden Netherlands

AUTHOR EMAIL: R.E.M.Toes@Lumc.nl

Proceedings of the National Academy of Sciences of the United States of America ( PROC. NATL. ACAD. SCI. U. S. A. ) (United States) 16 APR 2002, 99/8 (5561-5566)

CODEN: PNAS A ISSN: 0027-8424

DOCUMENT TYPE: Journal ; Conference Paper

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 39

4/3/35 (Item 4 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

11404457 EMBASE No: 2001412078

Lipopolysaccharide modulation of dendritic cells is insufficient to mature dendritic cells to generate CTLs from naive polyclonal CD8SUP+ T cells in vitro, whereas CD40 ligation is essential

Kelleher M.; Beverley P.C.L.

Dr. M. Kelleher, Edward Jenner Inst. for Vacc. Res., Compton, Berkshire RG20 7NN United Kingdom

AUTHOR EMAIL: michelle.kelleher@jenner.ac.uk

Journal of Immunology ( J. IMMUNOL. ) (United States) 01 DEC 2001,

167/11 (6247-6255)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 52

4/3/36 (Item 5 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11317747 EMBASE No: 2001329877  
CD40 stimulation accelerates deletion of tumor-specific CD8SUP+ T cells  
in the absence of tumor-antigen vaccination  
Kedl R.M.; Jordan M.; Potter T.; Kappler J.; Marrack P.; Dow S.  
R.M. Kedl, 3M Pharmaceuticals, 3M Center, St. Paul, MN 55144-1000 United  
States  
AUTHOR EMAIL: rmkedl@mmm.com  
Proceedings of the National Academy of Sciences of the United States of  
America ( PROC. NATL. ACAD. SCI. U. S. A. ) (United States) 11 SEP 2001  
, 98/19 (10811-10816)  
CODEN: PNASA ISSN: 0027-8424  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 50

4/3/37 (Item 6 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11285558 EMBASE No: 2001295264  
Longevity of antigen presentation and activation status of APC are  
decisive factors in the balance between CTL immunity versus tolerance  
Den Boer A.Th.; Diehl L.; Van Mierlo G.J.D.; Van der Voort E.I.H.;  
Fransen M.F.; Krimpenfort P.; Melief C.J.M.; Offringa R.; Toes R.E.M.  
Dr. A.Th. Den Boer, Department of Immunohematology, Leiden University  
Medical Center, P.O. Box 9600, 2300 RC Leiden Netherlands  
AUTHOR EMAIL: boer a@mail.medfac.leidenuniv.nl  
Journal of Immunology ( J. IMMUNOL. ) (United States) 01 SEP 2001,  
167/5 (2522-2528)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 35

4/3/38 (Item 7 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11214910 EMBASE No: 2001221724  
IL-1 enhances T cell-dependent antibody production through induction of  
CD40 ligand and OX40 on T cells  
Nakae S.; Asano M.; Horai R.; Sakaguchi N.; Iwakura Y.  
Dr. Y. Iwakura, Center for Experimental Medicine, Institute of Medical  
Science, University of Tokyo, 4-6-1 Shirokanedai, Minato-ku, Tokyo  
108-8639 Japan  
AUTHOR EMAIL: iwakura@ims.utokyo.ac.jp  
Journal of Immunology ( J. IMMUNOL. ) (United States) 01 JUL 2001,  
167/1 (90-97)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 43

4/3/39 (Item 8 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11121041 EMBASE No: 2001134778  
CD40 signaling converts a minimally immunogenic antigen into a potent vaccine against the intracellular pathogen *Listeria monocytogenes*  
Rolph M.S.; Kaufmann S.H.E.  
Dr. M.S. Rolph, Heart Research Institute, 145 Missenden Road, Camperdown, Sydney 2050 Australia  
AUTHOR EMAIL: m.rolph@hri.org.au  
Journal of Immunology ( J. IMMUNOL. ) (United States) 15 APR 2001, 166/8 (5115-5121)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 40

4/3/40 (Item 9 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11117336 EMBASE No: 2001140203  
Antibodies to CD40 induce a lethal cytokine cascade after syngeneic bone marrow transplantation  
Hixon J.A.; Blazar B.R.; Anver M.R.; Wilttrout R.H.; Murphy W.F.  
W.J. Murphy, SAIC-Frederick, NCI-FCRDC, Bldg. 567, Frederick, MD 21702 United States  
AUTHOR EMAIL: murphyw@mail.ncifcrf.gov  
Biology of Blood and Marrow Transplantation ( BIOL. BLOOD MARROW TRANSPLANT. ) (United States) 2001, 7/3 (136-143)  
CODEN: BBMTF ISSN: 1083-8791  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 20

4/3/41 (Item 10 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11000509 EMBASE No: 2001033948  
Anti-CD40 treatment of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-exposed C57BI/6 mice induces activation of antigen presenting cells yet fails to overcome TCDD-induced suppression of allograft immunity  
Shepherd D.M.; Stepan L.B.; Hedstrom O.R.; Kerkvliet N.I.  
D.M. Shepherd, Dept. of Environ./Molecular Toxicol., Agricultural Life Sciences Building, Oregon State University, Corvallis, OR 97331 United States  
AUTHOR EMAIL: David.Shepherd@orst.edu  
Toxicology and Applied Pharmacology ( TOXICOL. APPL. PHARMACOL. ) (United States) 01 JAN 2001, 170/1 (10-22)  
CODEN: TXAPA ISSN: 0041-008X  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 43

4/3/42 (Item 11 from file: 73)  
DIALOG(R)File 73:EMBASE

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10986051 EMBASE No: 2001029655

Role of CD40 in a T cell-mediated negative regulation of Ig production  
Majlessi L.; Bordenave G.

Dr. G. Bordenave, Unite d'Immunophysiologie Molec., Institut Pasteur, 25  
rue du Docteur Roux, 75724 Paris Cedex 15 France

AUTHOR EMAIL: gbordena@pasteur.fr

Journal of Immunology ( J. IMMUNOL. ) (United States) 15 JAN 2001,  
166/2 (841-847)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 42

4/3/43 (Item 12 from file: 73)

DIALOG(R)File 73:EMBASE

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10532821 EMBASE No: 1999417584

Membrane-bound CD154, but not CD40-specific antibody, mediates  
NF-kappaB-independent IL-6 production in B cells

Baccam M.; Bishop G.A.

G.A. Bishop, Department of Microbiology, University of Iowa, Iowa City,  
IA 52242 United States

AUTHOR EMAIL: gail-bishop@uiowa.edu

European Journal of Immunology ( EUR. J. IMMUNOL. ) (Germany) 1999,  
29/12 (3855-3866)

CODEN: EJIMA ISSN: 0014-2980

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 44

4/3/44 (Item 13 from file: 73)

DIALOG(R)File 73:EMBASE

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07928705 EMBASE No: 1999402576

Generation of mature dendritic cells from a CD14sup + cell line (XS52) by  
IL-4, TNF-alpha, IL-1beta, and **agonistic anti-CD40**  
monoclonal antibody

Yamada N.; Katz S.I.

Dr. S.I. Katz, Dermatology Branch, National Cancer Institute, Building  
10, Bethesda, MD 20892 United States

AUTHOR EMAIL: skatz@box-s.nih.gov

Journal of Immunology ( J. IMMUNOL. ) (United States) 15 NOV 1999,  
163/10 (5331-5337)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 33

4/3/45 (Item 14 from file: 73)

DIALOG(R)File 73:EMBASE

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07807833 EMBASE No: 1999297301

Disruption of CD154:CD40 blocks generation of allograft immunity without  
affecting APC activation

Shepherd D.M.; Kerkvliet N.I.

Dr. N.I. Kerkvliet, Dept. of Envntl./Molecular Toxicology, ALS 1007,

Oregon State University, Corvallis, OR 97331 United States  
AUTHOR EMAIL: Nancy.Kerkvliet@orst.edu  
Journal of Immunology ( J. IMMUNOL. ) (United States) 01 SEP 1999, 163/5  
(2470-2477)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 64

4/3/46 (Item 15 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

07735425 EMBASE No: 1999217763  
CD40 activation boosts T cell immunity in vivo by enhancing T cell clonal expansion and delaying peripheral T cell deletion.  
Maxwell J.R.; Campbell J.D.; Kim C.H.; Vella A.T.  
Dr. A.T. Vella, 220 Nash Hall, Department of Microbiology, Oregon State University, Corvallis, OR 97331 United States  
AUTHOR EMAIL: vellaa@bcc.orst.edu  
Journal of Immunology ( J. IMMUNOL. ) (United States) 15 FEB 1999, 162/4  
(2024-2034)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 87

4/3/47 (Item 1 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)

13495894 22181549 PMID: 12193753  
Activation of APCs Through CD40 or Toll-Like Receptor 9 Overcomes Tolerance and Precipitates Autoimmune Disease.  
Ichikawa Hiroshi T; Williams Lucas P; Segal Benjamin M  
Departments of. Neurology and Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY 14642.  
Journal of immunology (Baltimore, Md. : 1950) (United States) Sep 1 2002, 169 (5) p2781-7, ISSN 0022-1767 Journal Code: 2985117R  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: In Process

4/3/48 (Item 2 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)

12918630 21656620 PMID: 11797392  
[Is it possible to treat diseases by manipulation of lymphocytes?]  
Ogasawara K  
Second Department of Pathology, Shiga University of Medical Science, School of Medicine, Ohtsu 520-2192.  
Rinsho byori. The Japanese journal of clinical pathology (Japan) Dec 2001, 49 (12) p1225-32, ISSN 0047-1860 Journal Code: 2984781R  
Document type: Journal Article; Review; Review, Tutorial ; English Abstract  
Languages: JAPANESE  
Main Citation Owner: NLM  
Record type: Completed

4/3/49 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

12785213 21672719 PMID: 11814234

Mechanisms of mouse T lymphocyte-induced suppression of the IgG2ab allotype and T lymphocyte tolerance to IgG2ab.

Majlessi L; Bordenave G

Unite d'Immunophysiologie Moleculaire, Institut Pasteur, Paris, France.  
lmajless@pasteur.fr

Archivum immunologiae et therapias experimentalis (Poland) 2001, 49

(6) p407-15, ISSN 0004-069X Journal Code: 0114365

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: In Process

4/3/50 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

12682552 21571686 PMID: 11714787

Lipopolysaccharide modulation of dendritic cells is insufficient to mature dendritic cells to generate CTLs from naive polyclonal CD8+ T cells in vitro, whereas CD40 ligation is essential.

Kelleher M; Beverley P C

The Edward Jenner Institute for Vaccine Research, Compton, Berkshire, United Kingdom. michelle.kelleher@jenner.ac.uk

Journal of immunology (Baltimore, Md. : 1950) (United States) Dec 1 2001, 167 (11) p6247-55, ISSN 0022-1767 Journal Code: 2985117R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

4/3/51 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

10488448 20021827 PMID: 10553056

Generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-alpha, IL-1 beta, and **agonistic anti-CD40** monoclonal antibody.

Yamada N; Katz S I

Dermatology Branch, National Cancer Institute, Bethesda, MD 20892, USA.

Journal of immunology (Baltimore, Md. : 1950) (UNITED STATES) Nov 15 1999, 163 (10) p5331-7, ISSN 0022-1767 Journal Code: 2985117R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

4/3/52 (Item 6 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

09788182 98214894 PMID: 9554275

A novel method for enhancement of T independent responses.

Dullforce P; Sutton D; Heath A W

Division of Molecular and Genetic Medicine, University of Sheffield Medical School, U.K.

Developments in biological standardization (SWITZERLAND) 1998, 92 p195-8, ISSN 0301-5149 Journal Code: 0427140

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

4/3/53 (Item 1 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 2002 AMERICAN CHEMICAL SOCIETY. All rts. reserv.

135151637 CA: 135(11)151637v PATENT  
CD40-binding APC-activating molecules  
INVENTOR(AUTHOR): Thomas, David; De Boer, Mark; Res, Pieter C. J. M.;  
Simons, Peter J.  
LOCATION: USA  
ASSIGNEE: Tanox, Inc.  
PATENT: PCT International ; WO 200156603 A1 DATE: 20010809  
APPLICATION: WO 2001US3378 (20010201) \*US PV178934 (20000201)  
PAGES: 40 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: A61K-039/395A;  
C07K-016/00B; C07K-016/28B; C12N-005/10B; C12N-005/12B; C12N-015/00B;  
C12N-015/11B; C12N-015/13B; C12N-015/12B; C12N-015/63B  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AU; AZ; BA; BB; BG; BR; BY; BZ; CA;  
CN; CR; CU; CZ; DM; DZ; EE; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE;  
KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ;  
NO; NZ; PL; RO; RU; SD; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN;  
YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM;  
; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI;  
FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN;  
GW; ML; MR; NE; SN; TD; TG

4/3/54 (Item 2 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 2002 AMERICAN CHEMICAL SOCIETY. All rts. reserv.

134236228 CA: 134(17)236228s PATENT  
CD40 ligand and CD40 agonist compositions and methods of use  
INVENTOR(AUTHOR): Ahuja, Seema S.; Bonewald, Lynda F.  
LOCATION: USA  
ASSIGNEE: Board of Regents, the University of Texas System  
PATENT: PCT International ; WO 200116180 A2 DATE: 20010308  
APPLICATION: WO 2000US23276 (20000824) \*US PV151250 (19990827)  
PAGES: 117 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07K-014/705A;  
C07K-016/28B; A61K-038/17B; A61K-039/395B; A61P-019/10B  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;  
MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;  
TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU;  
TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;  
; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;  
BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

4/3/55 (Item 3 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 2002 AMERICAN CHEMICAL SOCIETY. All rts. reserv.

131252537 CA: 131(19)252537k PATENT  
Human interleukin-4 antagonist/agonist screens  
INVENTOR(AUTHOR): De Vries, Jan E.; Jenh, Chung-her; Narula, Satwant K.;  
Zavodny, Paul J.  
LOCATION: USA  
ASSIGNEE: Schering Corporation  
PATENT: United States ; US 5958707 A DATE: 1999Q928  
APPLICATION: US 453024 (19950530) \*US 770081 (19911003) \*US 869914  
(19920416) \*US 70162 (19930528)

PAGES: 23 pp., Division of U.S. Ser. No. 70,162. CODEN: USXXAM  
LANGUAGE: English CLASS: 435007200; G01N-033/53A

?



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s (cd40) (10n) (antibod?) (dendritic)
    15400  CD40
        0  ANTIBOD?) (DENDRITIC)
S3      0  (CD40) (10N) (ANTIBOD?) (DENDRITIC)
? s (cd40) (10n) (antibod?) (10n) (dendritic)
    15400  CD40
    1445964 ANTIBOD?
    80316  DENDRITIC
S4      88  (CD40) (10N) (ANTIBOD?) (10N) (DENDRITIC)
? rd s4
...examined 50 records (50)
...completed examining records
S5      66  RD S4 (unique items)
? s s5 and py<2000
Processing
Processing
        66  S5
    39951254 PY<2000
S6      25  S5 AND PY<2000
? t s6/7/all

```

6/7/1 (Item 1 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12340942 BIOSIS NO.: 200000094444

An agonist anti-human **CD40** monoclonal **antibody** that induces  
**dendritic** cell formation and maturation and inhibits proliferation  
of a myeloma cell line.

AUTHOR: Zhou Zhao-Hua; Wang Jiang-Fang; Wang Yue-Dan; Qiu Yue-Hua; Pan  
Jian-Zhong; Xie Wei; Jiang Lin-Yu; Klein Bernard; Zhang Xue-Guang(a)

AUTHOR ADDRESS: (a) Department of Immunology, Suzhou Medical College,  
Suzhou, 215007\*\*China

JOURNAL: Hybridoma 18 (6):p471-478 Dec., 1999

ISSN: 0272-457X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTRACT: CD40, a 48-50 KD cell membrane molecule, member of the nerve growth factor receptor and tumor necrosis factor receptor superfamily, is an important costimulatory molecule during the immune response. Anti-CD40 monoclonal antibody (MAb) has been shown earlier to costimulate with IgM or phorbol esters resting B cells to proliferate, differentiate, secrete immunoglobulins, and switch isotype. Here we report on an agonistic mouse anti-human CD40 MAb 5C11. The specificity of this MAb was verified by flow cytometry, Western blotting, and competition with anti-CD40 MAb 89. We studied the effects of MAb 5C11 on a multimyeloma cell line, XG2, that expresses the CD40 antigen strongly and found that this MAb caused the homotypic aggregation of XG2, strongly suppressed XG2 proliferation, and led to its apoptosis after 24 hr of treatment. Interestingly, MAb 5C11 also triggered the generation, proliferation, and maturation of dendritic cells from peripheral blood monocytes, either by itself or in combination with GM-CSF and IL-4.

6/7/2 (Item 2 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
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12122250 BIOSIS NO.: 199900417099

Interleukin-18 synthesis and secretion by dendritic cells are modulated by interaction with antigen-specific T cells.

AUTHOR: Gardella Stefania; Andrei Cristina; Costigliolo Sara; Poggi  
Alessandro; Zocchi M Raffaella; Rubartelli Anna(a)  
AUTHOR ADDRESS: (a)National Institute for Cancer Research, Largo Rosanna  
Benzi, 10, 16132, Genova\*\*Italy  
JOURNAL: Journal of Leukocyte Biology 66 (2):p237-241 Aug., 1999  
ISSN: 0741-5400  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

ABSTRACT: We show that interleukin-18 is constitutively produced by dendritic cells; synthesis and secretion are poorly affected by maturative stimuli. Challenge of dendritic cells with autologous anti-tetanus toxoid T lymphocytes results in a secretory switch, with induction of secretion of biologically active interleukin-18 and decrease of its intracellular content. Similarly, when dendritic cells are challenged with allospecific T cells a dramatic decrease of intracellular interleukin-18 content occurs, whereas no effects are observed after co-culture with autologous activated T cells. The induction of secretion can be mediated by engagement of **CD40** on **dendritic** cells, as indicated by the increased amount of interleukin-18 in **dendritic** cell supernatants after **CD40** triggering by anti-**CD40** **antibodies**. However, **CD40** engagement, unlike from antigen-specific T cells, does not result in reduced intracellular interleukin-18 content, suggesting that this decrease may be mediated by structure(s) involved in antigen recognition.

6/7/3 (Item 3 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11979865 BIOSIS NO.: 199900233178  
Inhibition of human breast carcinoma growth by a soluble recombinant human CD40 ligand.  
AUTHOR: Hirano Akio; Longo Dan L; Taub Dennis D; Ferris Douglas K; Young Lawrence S; Eliopoulos Arisitides G; Agathangelou Angelo; Cullen Nicky; Macartney James; Fanslow William C; Murphy William J(a)  
AUTHOR ADDRESS: (a)SAIC-Frederick, Bldg 567, Room 210, Frederick, MD\*\*USA  
JOURNAL: Blood 93 (9):p2999-3007 May 1, 1999  
ISSN: 0006-4971  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

ABSTRACT: **CD40** is present on B cells, monocytes, **dendritic** cells, and endothelial cells, as well as a variety of neoplastic cell types, including carcinomas. **CD40** stimulation by an **antibody** has previously been demonstrated to induce activation-induced cell death in aggressive histology human B-cell lymphoma cell lines. Therefore, we wanted to assess the effects of a recombinant soluble human CD40 ligand (srhCD40L) on human breast carcinoma cell lines. Human breast carcinoma cell lines were examined for CD40 expression by flow cytometry. CD40 expression could be detected on several human breast cancer cell lines and this could be augmented with interferon-gamma. The cell lines were then incubated with a srhCD40L to assess effects on in vitro growth. srhCD40L significantly inhibited the proliferation of the CD40+ human breast cancer cell lines. This inhibition could also be augmented with interferon-gamma. Viability was also affected and this was shown to be due to increased apoptosis of the cell lines in response to the ligand. Treatment of tumor-bearing mice was then performed to assess the in vivo efficacy of the ligand. Treatment of tumor-bearing SCID mice with the

ligand resulted in significant increases in survival. Thus, CD40 stimulation by its ligand directly inhibits human breast carcinoma cells in vitro and in vivo. These results suggest that srhCD40L may be of clinical use to inhibit human breast carcinoma growth.

6/7/4 (Item 1 from file: 73)  
DIALOG(R) File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

07928705 EMBASE No: 1999402576  
Generation of mature **dendritic** cells from a CD14sup + cell line (XS52) by IL-4, TNF-alpha, IL-1beta, and agonistic anti-**CD40** monoclonal **antibody**

Yamada N.; Katz S.I.  
Dr. S.I. Katz, Dermatology Branch, National Cancer Institute, Building 10, Bethesda, MD 20892 United States  
AUTHOR EMAIL: skatz@box-s.nih.gov  
Journal of Immunology ( J. IMMUNOL. ) (United States) 15 NOV 1999, 163/10 (5331-5337)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 33

We established a model system to generate mature dendritic cells (DC) from a GM-CSF-dependent cell line, XS52, which had been isolated from the epidermis of newborn BALB/c mice. Screening of various soluble factors revealed that IL-4 induces phenotypic maturation of XS52 (as evaluated by enhanced expression of class II, CD40, CD80, CD86, CD11c, and loss of expression of CD14) in a time-dependent manner. The addition of TNF-alpha, IL-1beta, and agonistic anti-CD40 mAb further enhanced expression of these maturation markers. Consistent with their phenotypic maturation, these cells (termed XS-DC) exhibited potent Ag-presenting capacity to both naive and primed T cells. In addition, injection of hapten-conjugated XS-DC induced contact hypersensitivity in vivo, suggesting their potential as tools for vaccination. Expression of CD14 by the starting cell population, the requirement for GM-CSF and IL-4, and the relatively long culture period are the common characteristics shared between our cells and human monocyte-derived DC, whose analogues in mice have not been identified. Because large numbers of skin-associated mature DC devoid of other cell lineages are easily obtained, this model system may facilitate the study of molecular events associated with maturation of DC and the use of DC for immunization.

6/7/5 (Item 2 from file: 73)  
DIALOG(R) File 73:EMBASE  
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07729382 EMBASE No: 1999211200  
Optimal stimulation of **dendritic** cells with anti-**CD40** **antibody**

Yokomizo H.; Okada Y.; Hashimoto M.; Kato H.; Endo S.; Yoshimatsu K.; Ogawa K.; Haga S.; Kajiwara T.  
Dr. H. Yokomizo, Department of Surgery, Tokyo Women's Medical University, Daini Hospital, 2-1-10 Nishiogu, Arakawa-ku, Tokyo 116-8567 Japan  
Biotherapy ( BIOTHERAPY (JAPAN) ) (Japan) 1999, 13/5 (633-635)  
CODEN: BITPE ISSN: 0914-2223  
DOCUMENT TYPE: Journal; Conference Paper  
LANGUAGE: JAPANESE SUMMARY LANGUAGE: ENGLISH; JAPANESE  
NUMBER OF REFERENCES: 4

We have shown previously that **dendritic** cells (DC) stimulated with anti- **CD40** **antibody** have a potent anti-tumor effect. Here we

report on the optimal stimulation of DC with anti-CD40 antibody. This report shows that when DC is stimulated by anti-CD40 antibody the existence of GM-CSF induces downregulation of DC IL-12 production, expression of MHC class I molecules and expression of CD86. We think that the excessive GM-CSF leads to the proliferation of DC, not to the stimulation of DC with anti CD40 antibody.

6/7/6 (Item 3 from file: 73)  
DIALOG(R) File 73:EMBASE  
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07675635 EMBASE No: 1999150693

Dendritic cell secretion of IL-15 is induced by recombinant huCD40LT and augments the stimulation of antigen-specific cytolytic T cells

Kuniyoshi J.S.; Kuniyoshi C.J.; Lim A.M.; Wang F.Y.; Bade E.R.; Lau R.; Thomas E.K.; Weber J.S.

J.S. Kuniyoshi, Department of Molecular Microbiology, Univ. of S. California Sch. of Med., Los Angeles, CA 90033 United States  
Cellular Immunology ( CELL. IMMUNOL. ) (United States) 10 APR 1999, 193/1 (48-58)

CODEN: CLIMB ISSN: 0008-8749

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 47

**Dendritic** cells (DC) are professional antigen-presenting cells which stimulate strong proliferative and cytolytic T cell responses. Stimulation of **CD40** on **dendritic** cells by its ligands and anti-**CD40 antibodies** induces maturation and enhances DC stimulatory ability. In order to understand the mechanism by which ligand:CD40 interactions augment DC function, we assessed the role of T cell stimulatory cytokines IL-12 and IL-15 in the function of DC stimulated with soluble trimeric CD40L, a recombinant fusion protein incorporating three covalently linked extracellular CD40L domains (huCD40LT). Peripheral blood derived DC treated with huCD40LT and/or IFN-gamma were used to stimulate T cell responses in vitro to specific antigens. DC treated with huCD40LT or IFN-gamma/huCD40LT stimulated enhanced T cell proliferation to CASTA, a soluble protein from *C. albicans*, induced T cells with augmented antigen-specific lysis, and increased the yield of antigen-specific IFN-gamma-producing T cells. IL-15 production by DC was enhanced in cultures treated with huCD40LT and correlated with expansion of antigen-specific cytolytic T cells. Addition of a neutralizing anti-IL-15 monoclonal antibody inhibited the expansion of viral and tumor antigen-specific T cells stimulated by IFN-gamma and huCD40LT-treated DC. In contrast, this enhanced stimulatory ability of DC did not appear to depend on synthesis of IL-12 since huCD40LT treatment stimulated the generation of antigen-specific cytokine producing and cytolytic T cells without increased IL-12 production. Addition of anti-IL-12 monoclonal antibody did not inhibit expansion of these cells. These data suggest that production of IL-15 but not IL-12 is an important factor in the enhanced immunostimulatory ability of huCD40LT-treated DC.

6/7/7 (Item 1 from file: 399)  
DIALOG(R) File 399:CA SEARCH(R)  
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132346395 CA: 132(26)346395k JOURNAL

Obtaining of anti-human CD40 mono-clonal antibody with special functions and analysis of it's biological effects

AUTHOR(S): Zhou, Zhaohua; Wang, Jiangfang; Wang, Yuedan; Qiu, Yuhua; Pan, Jianzhong; Xie, Wei; Jiang, Lingyu; Zhang, Xueguang

LOCATION: Department of Immunology, Suzhou Medical College, Suzhou, Peop.

Rep. China, 215007

JOURNAL: Zhongguo Mianyixue Zazhi DATE: 1999 VOLUME: 15 NUMBER: 12  
PAGES: 529-533 CODEN: ZMZAEE ISSN: 1000-484X LANGUAGE: Chinese  
PUBLISHER: Zhongguo Mianyixue Zazhi Bianjibu  
SECTION:

CA215003 Immunochemistry

IDENTIFIERS: monoclonal antibody CD40 dendritic cell lymphocyte

DESCRIPTORS:

Cell proliferation...

B cell; prepn. of anti-human CD40 monoclonal antibody with special functions and anal. of its biol. effects

Antibodies...

monoclonal; prepn. of anti-human CD40 monoclonal antibody with special functions and anal. of its biol. effects

CD40(antigen)...

prepn. of anti-human CD40 monoclonal antibody with special functions and anal. of its biol. effects

Dendritic cell...

prepn. of anti-human CD40 monoclonal antibody with special functions and anal. of its biol. effects in relation to

B cell(lymphocyte)...

proliferation; prepn. of anti-human CD40 monoclonal antibody with special functions and anal. of its biol. effects

6/7/8 (Item 2 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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132048828 CA: 132(5)48828x JOURNAL

Generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-.alpha., IL-1.beta., and agonistic anti-CD40 monoclonal antibody  
AUTHOR(S): Yamada, Nobuo; Katz, Stephen I.

LOCATION: Dermatology Branch, National Cancer Institute, Bethesda, MD, 20892, USA

JOURNAL: J. Immunol. DATE: 1999 VOLUME: 163 NUMBER: 10 PAGES: 5331-5337 CODEN: JOIMA3 ISSN: 0022-1767 LANGUAGE: English PUBLISHER: American Association of Immunologists

SECTION:

CA215005 Immunochemistry

IDENTIFIERS: dendritic cell maturation cytokine monoclonal Ig CD40

DESCRIPTORS:

T cell(lymphocyte)...

activation; generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-.alpha., IL-1.beta., and agonistic anti-CD40 monoclonal antibody and

Skin...

epidermis, newborn; generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-.alpha., IL-1.beta., and agonistic anti-CD40 monoclonal antibody

Antigen-presenting cell... CD14(antigen)... Cell differentiation...

Dendritic cell... Interleukin 1.beta.... Interleukin 4... Tumor necrosis factors...

generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-.alpha., IL-1.beta., and agonistic anti-CD40 monoclonal antibody

CD40(antigen)...

monoclonal Ig to; generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-.alpha., IL-1.beta., and agonistic anti-CD40 monoclonal antibody

Immunoglobulins...

monoclonal, to CD40; generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-.alpha., IL-1.beta., and agonistic anti-CD40 monoclonal antibody

Animal cell line...

XS52; generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-.alpha., IL-1.beta., and agonistic anti-CD40 monoclonal antibody

CAS REGISTRY NUMBERS:

83869-56-1 generation of mature dendritic cells from a CD14+ cell line (XS52) by IL-4, TNF-.alpha., IL-1.beta., and agonistic anti-CD40 monoclonal antibody and synergism with

6/7/9 (Item 3 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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131270712 CA: 131(20)270712t JOURNAL

Anti-CD40 antibody enhances responses to polysaccharide without mimicking T cell help

AUTHOR(S): Garcia de Vinuesa, Carola; MacLennan, Ian C. M.; Holman, Mary; Klaus, Gerry G. B.

LOCATION: Medical Research Council Center Immune Regulation, Univ. Birmingham, Birmingham, UK, B15 2TT

JOURNAL: Eur. J. Immunol. DATE: 1999 VOLUME: 29 NUMBER: 10 PAGES: 3216-3224 CODEN: EJIMAF ISSN: 0014-2980 LANGUAGE: English PUBLISHER: Wiley-VCH Verlag GmbH

SECTION:

CA215003 Immunochemistry

IDENTIFIERS: Ig switch lipopolysaccharide antiCD40 antibody

DESCRIPTORS:

Antibodies...

anti-CD40 antibody enhanced IgG switch to polysaccharide without mimicking T cell help

Integrins...

antigens CD11c; dendritic cell redistribution and proliferation in anti-CD40 antibody enhanced IgG responses to polysaccharide

Integrins...

antigens Mac-1 (macrophage 1); macrophage redistribution and proliferation in anti-CD40 antibody enhanced IgG responses to polysaccharide

B cell(lymphocyte)... Dendritic cell... Macrophage... T cell(lymphocyte)... cellular redistribution and proliferation in anti-CD40 antibody enhanced IgG responses to polysaccharide

Immunoglobulins...

D; anti-CD40 antibody enhanced IgG switch to polysaccharide without mimicking T cell help

Blood vessel...

endothelium; cellular redistribution and proliferation in anti-CD40 antibody enhanced IgG responses to polysaccharide

Immunoglobulins...

G; anti-CD40 antibody enhanced IgG switch to polysaccharide without mimicking T cell help

Immunoglobulins...

G3; anti-CD40 antibody enhanced IgG switch to polysaccharide without mimicking T cell help

Recombination,genetic...

Ig class switching; anti-CD40 antibody enhanced IgG responses to polysaccharide without mimicking T cell help

Immunoglobulins...

M; anti-CD40 antibody enhanced IgG switch to polysaccharide without mimicking T cell help

6/7/10 (Item 4 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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131241814 CA: 131(18)241814x JOURNAL  
 Expression of gp130 molecule on dendritic cells  
 AUTHOR(S): Gu, Zongjiang; Wang, Yuedan; Qiu, Yuhua; Zhou, Zhaochua; Xie, Wei; Zhu, Huating; Zhang, Xueguang  
 LOCATION: Immunology Research Unit, Suzhou Medical College, Suzhou, Peop. Rep. China, 215007  
 JOURNAL: Zhongguo Mianyixue Zazhi DATE: 1999 VOLUME: 15 NUMBER: 5  
 PAGES: 196-198 CODEN: ZMZAEE ISSN: 1000-484X LANGUAGE: Chinese  
 PUBLISHER: Zhongguo Mianyixue Zazhi Bianjibu  
 SECTION:  
 CA215005 Immunochemistry  
 IDENTIFIERS: gp130 glycoprotein monocyte differentiation dendritic cell  
 DESCRIPTORS:  
 Dendritic cell... Interleukin 4... Monocyte... Tumor necrosis factors...  
 expression of gp130 mol. on dendritic cells  
 Cell differentiation...  
 monocyte; expression of gp130 mol. on dendritic cells  
 Interleukin 6 receptors...  
 receptor-assocd. glycoprotein gp130, gp130; expression of gp130 mol. on dendritic cells  
 CD40(antigen)...  
 stimulating monoclonal antibody; expression of gp130 mol. on dendritic cells  
 CAS REGISTRY NUMBERS:  
 83869-56-1 expression of gp130 mol. on dendritic cells

6/7/11 (Item 5 from file: 399)  
 DIALOG(R) File 399:CA SEARCH(R)  
 (c) 2002 AMERICAN CHEMICAL SOCIETY. All rts. reserv.

131128995 CA: 131(10)128995u JOURNAL  
 Maturation of dendritic cells accompanies high-efficiency gene transfer by a CD40-targeted adenoviral vector  
 AUTHOR(S): Tillman, Bryan W.; De Gruijl, Tanja D.; Luykx-De Bakker, Sylvia A.; Scheper, Rik J.; Pinedo, Herbert M.; Curiel, Tyler J.; Gerritsen, Winald R.; Curiel, David T.  
 LOCATION: Gene Therapy Program, University of Alabama, Birmingham, AL, 35294, USA  
 JOURNAL: J. Immunol. DATE: 1999 VOLUME: 162 NUMBER: 11 PAGES: 6378-6383 CODEN: JOIMA3 ISSN: 0022-1767 LANGUAGE: English PUBLISHER: American Association of Immunologists  
 SECTION:  
 CA215010 Immunochemistry  
 CA203XXX Biochemical Genetics  
 IDENTIFIERS: dendritic cell transgene CD40 adenovirus vector  
 DESCRIPTORS:  
 Proteins, specific or class...  
 fiber-knob; maturation of dendritic cells accompanies high-efficiency gene transfer by adenoviral vector targeted by bispecific antibody to CD40 and fiber-knob  
 Adenoviridae... CD40(antigen)... Dendritic cell... Transduction, genetic...  
 Transgene... Virus vectors...  
 maturation of dendritic cells accompanies high-efficiency gene transfer by adenoviral vector targeted by bispecific antibody to CD40 and fiber-knob  
 Antibodies...  
 monoclonal, bispecific; maturation of dendritic cells accompanies high-efficiency gene transfer by adenoviral vector targeted by bispecific antibody to CD40 and fiber-knob

6/7/12 (Item 6 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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131017746 CA: 131(2)17746u JOURNAL  
Prolonged skin allograft survival in mice treated with  
Flt3-ligand-induced dendritic cells and anti-CD154 monoclonal antibody  
AUTHOR(S): Markees, T. G.; Phillips, N. E.; Gordon, E. J.; Noelle, R. J.;  
Maliszewski, C.; Mordes, J. P.; Greiner, D. L.; Rossini, A. A.  
LOCATION: University of Massachusetts Medical School, Worcester, MA,  
01605, USA  
JOURNAL: Transplant. Proc. DATE: 1999 VOLUME: 31 NUMBER: 1/2 PAGES:  
884-885 CODEN: TRPPA8 ISSN: 0041-1345 PUBLISHER ITEM IDENTIFIER:  
0041-1345(98)01817-X LANGUAGE: English PUBLISHER: Elsevier Science Inc.  
SECTION:  
CA215003 Immunochemistry  
IDENTIFIERS: skin allograft dendritic cell CD154 monoclonal antibody  
DESCRIPTORS:  
Transplant and Transplantation...  
allotransplant, skin; dendritic cells and anti-CD154 monoclonal  
antibody prolong survival of  
Skin...  
allotransplant; dendritic cells and anti-CD154 monoclonal antibody  
prolong survival of  
Glycoproteins, specific or class...  
CD40-L (antigen CD40 ligand); dendritic cells and anti-CD154 monoclonal  
antibody prolong skin allograft survival  
Dendritic cell...  
dendritic cells and anti-CD154 monoclonal antibody prolong skin  
allograft survival  
Antibodies...  
monoclonal; dendritic cells and anti-CD154 monoclonal antibody prolong  
skin allograft survival

6/7/13 (Item 7 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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129329705 CA: 129(25)329705g PATENT  
Receptor protein and its use  
INVENTOR(AUTHOR): Nishi, Kazunori; Shintani, Atsushi; Horiguchi, Takashi  
LOCATION: Japan,  
ASSIGNEE: Takeda Chemical Industries, Ltd.  
PATENT: European Pat. Appl. ; EP 873998 A2 DATE: 19981028  
APPLICATION: EP 98303190 (19980424) \*JP 97109798 (19970425) \*JP 97251867  
(19970917)  
PAGES: 65 pp. CODEN: EPXXDW LANGUAGE: English CLASS: C07K-014/705A;  
C07K-016/28B; C12N-015/12B DESIGNATED COUNTRIES: AT; BE; CH; DE; DK; ES;  
FR; GB; GR; IT; LI; LU; NL; SE; MC; PT; IE; SI; LT; LV; FI; RO  
SECTION:  
CA215003 Immunochemistry  
IDENTIFIERS: dendritic cell receptor protein ligand antibody  
DESCRIPTORS:  
Diseases(animal)...  
acute bacterial periostitis; dendritic cell surface receptor protein of  
TNF receptor family and monoclonal antibody for screening compds. for  
preventing and treating cancer, AIDS, infections, inflamma  
Encephalitis...  
acute viral; dendritic cell surface receptor protein of TNF receptor  
family and monoclonal antibody for screening compds. for preventing and  
treating cancer, AIDS, infections, inflammation, etc.  
Immunological diseases...  
allergic; dendritic cell surface receptor protein of TNF receptor  
family and monoclonal antibody for screening compds. for preventing and



treating cancer, AIDS, infections, inflammation, etc.

Antigens... Proteins (specific proteins and subclasses)...

Apo-2 ligand; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

Pneumonia...

bacterial; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

CD antigens...

CD27, ligand; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

Chemistry...

chem. compds.; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

Adult respiratory distress syndrome... AIDS (disease)... Antibodies...

Asthma... Autoimmune diseases... cDNA sequences... CD40 ligand... Chronic lymphocytic leukemia... Chronic myelogenous leukemia... Dendritic cell... DNA... Fas ligand... Glomerulonephritis... Infection... Inflammation... Insulin dependent diabetes mellitus... Ligands... Lymphotoxin... Melanoma... Monoclonal antibodies... Multiple myeloma... Non-Hodgkin's lymphoma... Peptic ulcer... Protein sequences... Receptors... Sepsis... Test kits... Tuberculosis... Tumor necrosis factor .alpha.... Tumors (animal)...

dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

Tumor necrosis factor receptors...

family; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

CD30 (antigen)...

ligand; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

Antigens...

OX-40, ligand; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

Receptors...

4-1BB, ligand; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

CAS REGISTRY NUMBERS:

215170-30-2 amino acid sequence; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating disease

9061-61-4 dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating cancer, AIDS, infections, inflammation, etc.

215170-31-3 nucleotide sequence; dendritic cell surface receptor protein of TNF receptor family and monoclonal antibody for screening compds. for preventing and treating disease

6/7/14 (Item 8 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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127261653 CA: 127(19)261653q JOURNAL

Antibodies against sialophorin (CD43) enhance the capacity of dendritic cells to cluster and activate T lymphocytes

AUTHOR(S): Fanales-Belasio, Emanuele; Zambruno, Giovanna; Cavani, Andrea;

Girolomoni, Giampiero

LOCATION: Laboratories Immunology Molecular Cell Biology, Istituto  
Dermopatico dell'Immacolata, IRCCS, Rome, Italy

JOURNAL: J. Immunol. DATE: 1997 VOLUME: 159 NUMBER: 5 PAGES:  
2203-2211 CODEN: JOIMA3 ISSN: 0022-1767 LANGUAGE: English PUBLISHER:  
American Association of Immunologists

SECTION:

CA215010 Immunochemistry

IDENTIFIERS: CD43 dendritic cell T lymphocyte activation

DESCRIPTORS:

Internalization... Translation(genetic)...

anti-CD43 antibodies stimulate CD43 internalization by dendritic cells  
CD40(antigen)... CD80(antigen)... CD86(antigen)... HLA-DR antigen...

ICAM-1(cell adhesion molecule)...

anti-CD43 antibodies stimulate expression of adhesion/costimulatory  
mols. in dendritic cells

Cell adhesion... Dendritic cell... Leukosialin... T cell activation...

antibodies against CD43 enhance the capacity of dendritic cells to  
cluster and activate T lymphocytes

Langerhans' cell...

CD43 expression on Langerhans' cells

CD antigens...

CD83; anti-CD43 antibodies stimulate expression of  
adhesion/costimulatory mols. in dendritic cells

6/7/15 (Item 9 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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127094110 CA: 127(7)94110b PATENT

Therapeutic applications for the anti-T-BAM) (CD40-L) monoclonal antibody  
5c8

INVENTOR(AUTHOR): Yellin, Michael J.; Lederman, Seth; Chess, Leonard;  
Karpusas, Mihail N.; Thomas, David W.

LOCATION: USA

ASSIGNEE: Trustees of Columbia University In the City of New York;  
Biogen, Incorporated

PATENT: PCT International ; WO 9720063 A1 DATE: 19970605

APPLICATION: WO 96US19172 (19961127) \*US 566258 (19951201) \*US 567391  
(19951201) \*US 637323 (19960422)

PAGES: 144 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/00A;  
G01N-033/53B; G01N-033/567B; A61K-039/395B; A61K-031/00B; A01N-037/18B

DESIGNATED COUNTRIES: AU; CA; JP; MX DESIGNATED REGIONAL: AT; BE; CH; DE  
; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

SECTION:

CA215001 Immunochemistry

IDENTIFIERS: CD40 ligand monoclonal antibody therapy

DESCRIPTORS:

Transplant rejection...

allo-; therapeutic applications for the anti-CD40-L monoclonal  
antibodies in relation to

Liver diseases...

fibrosis; therapeutic applications for the anti-CD40-L monoclonal  
antibodies in relation to

Chimeric antibodies... Humanized antibodies... Immunoglobulin fragments...

therapeutic applications for the anti-CD40-L monoclonal antibodies

Arthritis... Asbestosis... Atherosclerosis... Autoimmune diseases...

Hepatitis... Multiple myeloma... Osteoarthritis... Pneumoconiosis...

Pulmonary fibrosis... Reperfusion injury... Rheumatoid arthritis...

Scleroderma...

therapeutic applications for the anti-CD40-L monoclonal antibodies in  
relation to

CD40 ligand...

therapeutic applications for the anti-CD40-L monoclonal antibody 5c8  
 CD40(antigen)... Cell activation... Dendritic cell... Keratinocyte...  
 Protein sequences...  
   therapeutic applications for the anti-CD40-L monoclonal antibody 5c8 in  
   relation to  
 Basophil...  
   therapeutic applications for the anti-CD40-L monoclonal antibody 5c8 in  
   relation to basophil activation  
 Vascular endothelium...  
   therapeutic applications for the anti-CD40-L monoclonal antibody 5c8 in  
   relation to endothelial cell activation  
 Fibroblast...  
   therapeutic applications for the anti-CD40-L monoclonal antibody 5c8 in  
   relation to fibroblast activation  
 Macrophage activation...  
   therapeutic applications for the anti-CD40-L monoclonal antibody 5c8 in  
   relation to macrophage activation  
 T cell activation...  
   therapeutic applications for the anti-CD40-L monoclonal antibody 5c8 in  
   relation to T-cell activation  
 Monoclonal antibodies...  
   5c8; therapeutic applications for the anti-CD40-L monoclonal antibody  
   5c8

6/7/16 (Item 10 from file: 399)  
 DIALOG(R) File 399:CA SEARCH(R)  
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123110095 CA: 123(9)110095a JOURNAL  
 Stimulation of germinal center B lymphocyte proliferation by an FDC-like  
 cell line, HK  
 AUTHOR(S): Kim, Han-Soo; Zhang, Xinhong; Klyushnenkova, Elena; Choi, Yong  
 Sung  
 LOCATION: Lab. Cell. Immunol., Alton Ochsner Med. Foundation, New Orleans  
 , LA, 70121, USA  
 JOURNAL: J. Immunol. DATE: 1995 VOLUME: 155 NUMBER: 3 PAGES: 1101-9  
 CODEN: JOIMA3 ISSN: 0022-1767 LANGUAGE: English  
 SECTION:  
 CA215010 Immunochemistry  
 IDENTIFIERS: B cell proliferation follicular dendritic cell  
 DESCRIPTORS:  
 Animal cell line...  
   HK; stimulation of germinal center B lymphocyte proliferation by an  
   follicular dendritic cell-like cell line, HK  
 Antigens,CD38... Apoptosis... Leukocyte,dendritic cell... Lymph  
 node,germinal center... Lymphocyte,B-cell... Lymphokines and  
 Cytokines,interleukin 4...  
   stimulation of germinal center B lymphocyte proliferation by an  
   follicular dendritic cell-like cell line, HK  
 Antibodies...  
   to IgM or CD40; stimulation of germinal center B lymphocyte  
   proliferation by an follicular dendritic cell-like cell line, HK

6/7/17 (Item 1 from file: 154)  
 DIALOG(R) File 154:MEDLINE(R)

10444967 99443397 PMID: 10515374  
 Increased apoptosis of immunoreactive host cells and augmented donor  
 leukocyte chimerism, not sustained inhibition of B7 molecule expression are  
 associated with prolonged cardiac allograft survival in mice preconditioned  
 with immature donor dendritic cells plus anti-CD40L mAb.  
 Lu L; Li W; Zhong C; Qian S; Fung J J; Thomson A W; Starzl T E

Thomas E. Starzl Transplantation Institute, and Department of Surgery,  
University of Pittsburgh, Pennsylvania 15213, USA.

Transplantation (UNITED STATES) Sep 27 1999, 68 (6) p747-57,  
ISSN 0041-1337 Journal Code: 0132144

Contract/Grant No.: AI41011; AI; NIAID; DK 29961; DK; NIDDK; DK49745; DK;  
NIDDK

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**BACKGROUND:** We previously reported the association among donor leukocyte chimerism, apoptosis of presumed IL-2-deficient graft-infiltrating host cells, and the spontaneous donor-specific tolerance induced by liver but not heart allografts in mice. Survival of the rejection-prone heart allografts in the same strain combination is modestly prolonged by the pretransplant infusion of immature, costimulatory molecule (CM) deficient donor dendritic cells (DC), an effect that is markedly potentiated by concomitant CM blockade with anti-CD40L (CD154) monoclonal antibody (mAb). We investigated whether the long survival of the heart allografts in the pretreated mice was associated with donor leukocyte chimerism and apoptosis of graft-infiltrating cells, if these end points were similar to those in the spontaneously tolerant liver transplant model, and whether the pretreatment effect was dependent on sustained inhibition of CM expression of the infused immature donor DC. In addition, apoptosis was assessed in the host spleen and lymph nodes, a critical determination not reported in previous studies of either spontaneous or "treatment-aided" organ tolerance models. **METHODS:** Seven days before transplantation of hearts from B10 (H-2b) donors,  $2 \times 10^6$  donor-derived immature DC were infused i.v. into C3H (H-2k) recipient mice with or without a concomitant i.p. injection of anti-CD40L mAb. Donor cells were detected posttransplantation by immunohistochemical staining for major histocompatibility complex class II (I-Ab) in the cells of recipient lymphoid tissue. CM expression was determined by two-color labeling. Host responses to donor alloantigen were quantified by mixed leukocyte reaction, and cytotoxic T lymphocyte (CTL) assays. Apoptotic death in graft-infiltrating cells and in areas of T-dependent lymphoid tissue was visualized by terminal deoxynucleotidyltransferase-catalyzed dUTP-digoxigenin nick-end labeling and quantitative spectrofluorometry. Interleukin-2 production and localization were estimated by immunohistochemistry. **RESULTS:** Compared with control heart transplantation or heart transplantation after only DC administration, concomitant pretreatment with immature donor DC and anti-CD40L mAb caused sustained elevation of donor (I-Ab+) cells (microchimerism) in the spleen including T cell areas. More than 80% of the I-Ab+ cells in combined treatment animals also were CD86+, reflecting failure of the mAb to inhibit CD40/CD80/CD86 up-regulation on immature DC in vitro after their interaction with host T cells. Donor-specific CTL activity in graft-infiltrating cells and spleen cell populations of these animals was present on day 8, but decreased strikingly to normal control levels by day 14. The decrease was associated with enhanced apoptosis of graft-infiltrating cells and of cells in the spleen where interleukin-2 production was inhibited. The highest levels of splenic microchimerism were found in mice with long surviving grafts (>100 days). In contrast, CTL activity was persistently elevated in control heart graft recipients with comparatively low levels of apoptotic activity and high levels of interleukin-2. **CONCLUSION:** The donor-specific acceptance of rejection-prone heart allografts by recipients pretreated with immature donor DC and anti-CD40L mAb is not dependent on sustained inhibition of donor DC CM (CD86) expression. Instead, the pretreatment facilitates a tolerogenic cascade similar to that in spontaneously tolerant liver recipients that involves: (1) chimerism-driven immune activation, succeeded by deletion of host immune responder cells by apoptosis in the spleen and allograft that is linked to interleukin-2 deficiency in both locations and (2) persistence of comparatively large numbers of donor-derived leukocytes. These tolerogenic mechanisms are thought to be generic, explaining the tolerance

induced by allografts spontaneously, or with the aid of various kinds of immunosuppression.

Record Date Created: 19991105

6/7/18 (Item 2 from file: 154)  
DIALOG(R) File 154:MEDLINE(R)

10054934 99029732 PMID: 9814595

CD40 in clinical inflammation: from multiple sclerosis to atherosclerosis.

Laman J D; De Boer M; Hart B A

Division of Immunological and Infectious Diseases, TNO Prevention and Health (TNO-PG), Leiden, The Netherlands.

Developmental immunology (ENGLAND) 1998, 6 (3-4) p215-22,

ISSN 1044-6672 Journal Code: 9200624

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The interactions of CD40 and CD40L have been known for some time to critically regulate B-cell responses with respect to proliferation, isotype switching, **antibody** production, and memory formation. More recent findings demonstrated that **CD40** can be expressed on several other antigen-presenting cell (APC) types such as macrophages, **dendritic** cells, and fibroblasts. This expression of **CD40** regulates T-cell-APC interaction and is centrally involved in a wide array of inflammatory events. Here, currently available data are reviewed demonstrating that CD40-CD40L interactions are operational in two chronic inflammatory clinical conditions, namely, multiple sclerosis and atherosclerosis. The functional correlates of these interactions are discussed in the light of recent other findings, shedding light on the multiple effects of CD40-CD40L interactions. (50 Refs.)

Record Date Created: 19990127

6/7/19 (Item 3 from file: 154)  
DIALOG(R) File 154:MEDLINE(R)

09845430 98259414 PMID: 9597126

CD40 and CD154 in cell-mediated immunity.

Grewal I S; Flavell R A

Howard Hughes Medical Institute, and Section of Immunobiology, Yale University School of Medicine, New Haven, Connecticut 06520, USA.

Annual review of immunology (UNITED STATES) 1998, 16 p111-35,

ISSN 0732-0582 Journal Code: 8309206

Document type: Journal Article; Review; Review, Academic

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

CD40-CD154-mediated contact-dependent signals between B and T cells are required for the generation of thymus dependent (TD) humoral immune responses. CD40-CD154 interactions are however also important in many other cell systems. **CD40** is expressed by a large variety of cell types other than B cells, and these include **dendritic** cells, follicular **dendritic** cells, monocytes, macrophages, mast cells, fibroblasts, and endothelial cells. **CD40**- and CD154-knockout mice and **antibodies**

to **CD40** and CD154 have helped to elucidate the role of the CD40-CD154 system in immune responses. Recently published studies indicate that CD40-CD154 interactions can influence T cell priming and T cell-mediated effector functions; they can also upregulate costimulatory molecules and activate macrophages, NK cells, and endothelia as well as participate in organ-specific autoimmune disease, graft rejection, and even atherosclerosis. This review focuses on the role of the CD40-CD154 system

in the regulation of many newly discovered functions important in inflammation and cell-mediated immunity. (115 Refs.)

Record Date Created: 19980805

6/7/20 (Item 4 from file: 154)  
DIALOG(R) File 154:MEDLINE(R)

09767011 98208256 PMID: 9548477

Identification of two distinct populations of dendritic cells in afferent lymph that vary in their ability to stimulate T cells.

Howard C J; Sopp P; Brownlie J; Kwong L S; Parsons K R; Taylor G

The Institute for Animal Health, Compton, Near Newbury, United Kingdom.  
Chris.Howard@BBSRC.AC.UK

Journal of immunology (Baltimore, Md. : 1950) (UNITED STATES) Dec 1 1997, 159 (11) p5372-82, ISSN 0022-1767 Journal Code: 2985117R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Immunofluorescent staining and flow cytometric analysis of dendritic cells from cattle afferent lymph has established that within the afferent lymph veiled cells (ALVC) there are two phenotypically distinct, major populations. One is CD11a+, CD5+, CD21- and expresses the bovine WC10 (workshop cluster 10) molecule and the Ag recognized by mAb CC81 but is not recognized by mAbs CC149 and IL-A24. The second ALVC subpopulation is CD11a-, CD5-, CD21+/-, workshop cluster 10- and is not recognized by mAb CC81 but is recognized by mAb CC149. Thus, the two populations, which can be identified by staining for CD11a, are defined by the differential expression of a number of Ag. The ALVC populations had differing capacities to stimulate T cells. CD11a- ALVC were more effective at stimulating proliferative responses in allogeneic CD4+ T cells and CD8+ T cells. This was not related to binding of CTLA4Ig or CD40L fusion proteins, implying similar levels of expression of their ligands, CD80 and CD86 or CD40. Both subsets were able to present OVA to resting memory CD4+ T cells, indicating that both were able to take up and process soluble native protein. In contrast, the CD11a- ALVC were more effective in presenting respiratory syncytial virus Ag to resting CD4+ T cells. Considering the central role of dendritic cells in the initiation of immune responses in naive animals, the two cell types may have different roles in the induction of primary responses induced following infection or immunization.

Record Date Created: 19980420

6/7/21 (Item 5 from file: 154)  
DIALOG(R) File 154:MEDLINE(R)

09652283 98082887 PMID: 9422424

Blockade of the CD40-CD40 ligand pathway potentiates the capacity of donor-derived dendritic cell progenitors to induce long-term cardiac allograft survival.

Lu L; Li W; Fu F; Chambers F G; Qian S; Fung J J; Thomson A W

Thomas E. Starzl Transplantation Institute and Department of Surgery, University of Pittsburgh, Pennsylvania 15213, USA..

Transplantation (UNITED STATES) Dec 27 1997, 64 (12) p1808-15, ISSN 0041-1337 Journal Code: 0132144

Contract/Grant No.: R01 AI41011; AI; NIAID; R01 DK 49745; DK; NIDDK

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

BACKGROUND: Failure of costimulatory molecule-deficient donor dendritic cells (DCs) to induce indefinite allograft acceptance may be a result of the 'late' up-regulation of these molecules on the DCs after interaction

with host T cells. Ligation of CD40 on antigen-presenting cells by its cognate ligand CD40L is thought to induce expression of CD80 (B7-1) and CD86 (B7-2). We examined the influence of anti-CD40L monoclonal antibody (mAb) on the capacity of donor-derived DC progenitors to induce long-term allograft survival. METHODS: High purity DC progenitors were grown from B10 (H2b) mouse bone marrow in granulocyte-macrophage colony-stimulating factor and transforming growth factor beta1 (TGFbeta1). Mature DC were propagated in granulocyte-macrophage colony-stimulating factor and interleukin-4. Their phenotype was characterized by flow cytometric analysis and their function by mixed leukocyte reactivity. Anti-donor cytotoxic T lymphocyte activity in grafts and spleens of vascularized heart allograft recipients was also assessed. RESULTS: The TGFbeta3-cultured cells were (1) DEC 205-positive, MHC class II-positive, CD80dim, CD86dim, and CD40dim, (2) poor stimulators of naive allogeneic T-cell proliferation, and (3) able to prolong significantly B10 cardiac allograft survival in C3H (H2k) recipients when given ( $2 \times 10^6$  i.v.) 7 days before organ transplantation (median survival time [MST] 26 days vs. 12 days in controls, and 5 days in interleukin-4 DC-treated animals). Their allostimulatory activity was further diminished by addition of anti-CD40L mAb at the start of the mixed leukocyte cultures. Anti-CD40L mAb alone (250 microg/mouse, i.p.; day -7) did not prolong cardiac graft survival (MST 12 days). In contrast, TGFbeta-cultured DCs + anti-CD40L mAb extended graft survival to a MST of 77 days, and inhibited substantially the anti-donor cytotoxic T lymphocyte activity of graft-infiltrating cells and host spleen cells assessed 8 days after transplant. CONCLUSIONS: The CD40-CD40L pathway appears important in regulation of allogeneic DC-T-cell functional interaction in vivo; its blockade increases markedly the potential of costimulatory molecule-deficient DCs of donor origin to induce long-lasting allograft survival.

Record Date Created: 19980122

6/7/22 (Item 6 from file: 154)  
DIALOG(R) File 154:MEDLINE(R)

09499504 97392352 PMID: 9250584  
Functional role of CD40 and its ligand.  
van Kooten C; Banchereau J  
Department of Nephrology, Leiden University Hospital, The Netherlands.  
International archives of allergy and immunology (SWITZERLAND) Aug  
1997, 113 (4) p393-9, ISSN 1018-2438 Journal Code: 9211652  
Document type: Journal Article; Review; Review Literature  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed  
CD40, a cell surface receptor which belongs to the TNF-R family, was first identified and functionally characterized on B lymphocytes. In recent years, CD40 has been found expressed on other cells, including monocytes, dendritic cells, endothelial cells and epithelial cells and is now thought to play a more general role in immune regulation. The present paper reviews recent developments about CD40, with main emphasis on: (1) structure and expression of CD40 and its ligand; (2) CD40 signal transduction; (3) in vitro function of CD40 on different cell types, and (4) in vivo functions of CD40/CD40L interactions. (47 Refs.)

Record Date Created: 19970905

6/7/23 (Item 7 from file: 154)  
DIALOG(R) File 154:MEDLINE(R)

09369928 97244166 PMID: 9088975  
CD40 ligation counteracts Fas-induced apoptosis of human dendritic cells.  
Bjorck P; Banchereau J; Flores-Romo L  
Schering-Plough Laboratory for Immunological Research, Dardilly, France.

International immunology (ENGLAND) Mar 1997, 9 (3) p365-72,  
ISSN 0953-8178 Journal Code: 8916182  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

Dendritic cells (DC) are cells of the hematopoietic system specialized in capturing antigens and initiating T cell-mediated immune responses. We show here that human DC generated in vitro by culturing CD34+ cord blood progenitor cells in granulocyte macrophage colony stimulating factor plus tumor necrosis factor-alpha express the Fas antigen (APO-1, CD95) and undergo apoptosis upon triggering of Fas by mAb. However, only a proportion of the cells die in response to Fas ligation, an observation that may be related to the virtual absence of the bcl-2 protein in about half of the cells. Ligation of DC CD40 by culture on CD40L-transfected fibroblastic cells up-regulates the expression of bcl-2 and, concomitantly, renders DC virtually resistant to Fas-induced apoptosis. Parallel experiments with mature, interdigitating dendritic cells (IDC) isolated from tonsils revealed that IDC express Fas but do not enter into apoptosis following Fas ligation, a finding that may be explained by their high levels of bcl-2. Thus, upon encountering antigen-specific T cells, DC become resistant to Fas-induced apoptosis, as a consequence of CD40 ligation and possibly by mechanisms associated to the up-regulation of bcl-2 protein expression.

Record Date Created: 19971016

6/7/24 (Item 8 from file: 154)  
DIALOG(R) File 154:MEDLINE(R)

08706619 96036887 PMID: 8526104

Human dendritic cells can drive CD40-activated sIgD+ B cells to mount mucosal-type humoral response.

Fayette J; Dubois B; Caux C; Banchereau J; Briere F

Schering-Plough, Laboratory for Immunological Research, Dardilly, France.

Advances in experimental medicine and biology (UNITED STATES)

1995, 378 p401-3, ISSN 0065-2598 Journal Code: 0121103

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Record Date Created: 19960125

6/7/25 (Item 9 from file: 154)  
DIALOG(R) File 154:MEDLINE(R)

08597420 95355838 PMID: 7629501

Dendritic cells use macropinocytosis and the mannose receptor to concentrate macromolecules in the major histocompatibility complex class II compartment: downregulation by cytokines and bacterial products.

Sallusto F; Cella M; Danieli C; Lanzavecchia A

Basel Institute for Immunology, Switzerland.

Journal of experimental medicine (UNITED STATES) Aug 1 1995, 182

(2) p389-400, ISSN 0022-1007 Journal Code: 2985109R

Comment in J Exp Med. 1995 Aug 1;182(2) 283-8; Comment in PMID 7629494

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

We have previously demonstrated that human peripheral blood low density mononuclear cells cultured in granulocyte/macrophage colony-stimulating factor (GM-CSF) and interleukin (IL)-4 develop into dendritic cells (DCs) that are extremely efficient in presenting soluble antigens to T cells. To identify the mechanisms responsible for efficient antigen capture, we



studied the endocytic capacity of DCs using fluorescein isothiocyanate-dextran, horseradish peroxidase, and lucifer yellow. We found that DCs use two distinct mechanisms for antigen capture. The first is a high level of fluid phase uptake via macropinocytosis. In contrast to what has been found with other cell types, macropinocytosis in DCs is constitutive and allows continuous internalization of large volumes of fluid. The second mechanism of capture is mediated via the mannose receptor (MR), which is expressed at high levels on DCs. At low ligand concentrations, the MR can deliver a large number of ligands to the cell in successive rounds. Thus, while macropinocytosis endows DCs with a high capacity, nonsaturable mechanism for capture of any soluble antigen, the MR gives an extra capacity for antigen capture with some degree of selectivity for non-self molecules. In addition to their high endocytic capacity, DCs from GM-CSF + IL-4-dependent cultures are characterized by the presence of a large intracellular compartment that contains high levels of class II molecules, cathepsin D, and lysosomal-associated membrane protein-1, and is rapidly accessible to endocytic markers. We investigated whether the capacity of DCs to capture and process antigen could be modulated by exogenous stimuli. We found that DCs respond to tumor necrosis factor alpha, CD40 ligand, IL-1, and lipopolysaccharide with a coordinate series of changes that include downregulation of macropinocytosis and Fc receptors, disappearance of the class II compartment, and upregulation of adhesion and costimulatory molecules. These changes occur within 1-2 d and are irreversible, since neither pinocytosis nor the class II compartment are recovered when the maturation-inducing stimulus is removed. The specificity of the MR and the capacity to respond to inflammatory stimuli maximize the capacity of DCs to present infectious non-self antigens to T cells.

Record Date Created: 19950907

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Cost is in DialUnits

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\$0.28 0.081 DialUnits File1  
\$0.28 Estimated cost File1  
\$0.01 TELNET  
\$0.29 Estimated cost this search  
\$0.29 Estimated total session cost 0.081 DialUnits

File 410:Chronolog(R) 1981-2002/Jul  
(c) 2002 The Dialog Corporation

Set Items Description  
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\$0.05 TELNET  
\$0.05 Estimated cost this search  
\$0.34 Estimated total session cost 0.151 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 5:Biosis Previews(R) 1969-2002/Aug W2  
(c) 2002 BIOSIS

\*File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 73:EMBASE 1974-2002/Aug W3  
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\*File 73: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 399:CA SEARCH(R) 1967-2002/UD=13708  
(c) 2002 AMERICAN CHEMICAL SOCIETY

\*File 399: Use is subject to the terms of your user/customer agreement. Alert feature enhanced for multiple files, etc. See HELP ALERT.

File 154:MEDLINE(R) 1990-2002/Aug W3

\*File 154: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

Set Items Description  
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5899102 3

553714 23

1445964 ANTIBOD?

15400 CD40

S1 9 (3(W)23)(10N)(ANTIBOD?)(10N)(CD40)

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...completed examining records

S2 4 RD S1 (unique items)

? t s2/7/all

2/7/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13060592 BIOSIS NO.: 200100267741

Regulation of iNOS expression and myocardial cell death: Mechanisms of allograft survival with CD40L deficiency.

AUTHOR: Shimizu Koichi(a); Rabkin Elena(a); Schoenbeck Uwe(a); Libby Peter

(a); Mitchell Richard N(a)  
AUTHOR ADDRESS: (a)Brigham and Women's Hospital, Harvard Medical School,  
Boston, MA, 02115\*\*USA  
JOURNAL: FASEB Journal 15 (4):pA670 March 7, 2001  
MEDIUM: print  
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies  
for Experimental Biology on Experimental Biology 2001 Orlando, Florida,  
USA March 31-April 04, 2001  
ISSN: 0892-6638  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

ABSTRACT: Introduction: Previous studies showed that despite early moderate rejection, the absence of CD40L on recipient immune cells leads to long-term survival of complete allogeneic mismatched cardiac grafts. In this study, we examined mechanisms by which host CD40L depletion results in allograft survival. Methods and Results: Vascularized heterotopic cardiac transplantation was performed using total allogeneic mismatched combinations of wild type (WT) BALB/c (B/c, H-2d) and WT or CD40L-/- C57BL/6 (B6, H-2b) mice. By postoperative day 7, the histologic grade of parenchymal rejection (PR) in WT B/c allograft hearts was significantly greater for B6 WT than for B6 CD40L-/- recipients. PR scores were  $3.13 \pm 0.52$  and  $2.17 \pm 0.41$  ( $p = 0.0028$ ) in WT ( $n = 8$ ) and CD40L-/- ( $n = 6$ ) recipient allografts, respectively. Immunohistochemistry showed that iNOS and peroxynitrite expression was markedly diminished, out of proportion to the diminished cellular infiltrate in CD40L-/- recipient allografts. Flow cytometry showed that Fas ligand expression on the graft infiltrating CD8+ T cells was significantly reduced in CD40L-/- compared to WT recipient allografts. Although TUNEL-positive graft infiltrating cells were present in similar numbers in grafts in WT and CD40L-/- allografts, TUNEL-positive donor myocardial cells were seen only in the WT recipient allografts. Caspase-3 activity was 30-fold higher in WT than in CD40L-/- recipient allografts on post-operative day 7. To confirm a role for Fas and NO-mediated pathways, transplants involving Fas-/- donor hearts and chronic administration of iNOS inhibitor (L-NIL) significantly prolonged allograft survival. In vitro, recombinant CD40L or CD40 stimulating antibody (3/23) induced iNOS mRNA of IFN-gamma primed human monocytes or mouse peritoneal macrophages, respectively. Conclusions: This study demonstrates that both Fas-FasL interaction and iNOS-induced pathways may cooperate to cause donor myocyte death or dysfunction in acute allograft rejection. Host CD40L deficiency may induce long-term allograft survival by ameliorating FasL and iNOS expression.

2/7/2 (Item 2 from file: 5)  
DIALOG(R) File 5:Biosis Previews(R)  
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12666263 BIOSIS NO.: 200000419765  
Therapeutic activity of agonistic monoclonal antibodies against CD40 in a chronic autoimmune inflammatory process.  
AUTHOR: Mauri Claudia; Mars Lennart T; Londei Marco(a)  
AUTHOR ADDRESS: (a)The Kennedy Institute of Rheumatology, Imperial College School of Medicine, 1 Aspenlea Road, London, W6 8LH\*\*UK  
JOURNAL: Nature Medicine 6 (6):p673-679 June, 2000  
MEDIUM: print  
ISSN: 1078-8956  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

ABSTRACT: The use of agonistic monoclonal antibody against CD40 has emerged as one the most effective ways to boost immune responses against infectious agents or to fight cancer. Here, we report that the same monoclonal **antibodies** against **CD40** (FGK45 and 3/23) previously used to elicit protective immune responses treated the autoimmune inflammatory process of chronic collagen-induced arthritis in DBA/1-TCR-beta transgenic mice, as well as collagen-induced arthritis in DBA/1 mice, both animal models of rheumatoid arthritis. This study indicates that agonistic monoclonal antibody against CD40 can potentially be used to treat chronic autoimmune inflammatory processes.

2/7/3 (Item 3 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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09436214 BIOSIS NO.: 199497444584  
Properties of mouse CD40: Cellular distribution of CD40 and B cell activation by monoclonal anti-mouse CD40 antibodies.  
AUTHOR: Hasbold Jhagvaral; Johnson-Leger Caroline; Atkins Chris J; Clark Edward A; Klaus Gerry G B(a)  
AUTHOR ADDRESS: (a)Lab. Cellular Immunol., National Inst. Med. Res., London NW7 1AA\*\*UK  
JOURNAL: European Journal of Immunology 24 (8):p1835-1842 1994  
ISSN: 0014-2980  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: We describe here the derivation of a rat monoclonal **antibody** (mAb) against mouse **CD40** (designated 3/23), which stains 45-50% of spleen cells of adult mice, approximately 90% of which are B cells. Interestingly, some 5-10% of both CD4+ and CD8+ T cells in the spleens of (some, but not all) adult, unimmunized mice are also CD40+, whereas CD40+ cells were not detectable in the thymus, even following collagenase digestion. Some 35-40% of lymphoid cells in the bone marrow of adult mice are CD40+ and virtually an of these are B220+, and hence of the B cell lineage: triple-color flow cytometry showed that CD40 is expressed at low levels on some 30% of pre-B cells, at intermediate levels on 80% of immature B cells and on essentially all mature B cells in the bone marrow. These results, therefore, suggest that in the mouse CD40 is expressed relatively late during the process of B cell differentiation. The mAb induced marked up-regulation of major histocompatibility complex class II molecules, CD23 and B7.2 antigens on mature B cells. It also stimulated modest levels of DNA synthesis in mature B cells by itself: this was markedly enhanced by suboptimal concentrations of mitogenic (but not non-mitogenic) anti-mu and anti-delta mAb, and moderately enhanced by co-stimulation with interleukin-4. Hypercross-linking of CD40 (using biotinylated mAb and avidin) also enhanced the proliferative response to anti-CD40.

2/7/4 (Item 1 from file: 73)  
DIALOG(R)File 73:EMBASE  
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07681636 EMBASE No: 1999166742  
CD40 antibody evokes a cytotoxic T-cell response that eradicates lymphoma and bypasses T-cell help  
French R.R.; Chan H.T.C.; Tutt A.L.; Glennie M.J.  
M.J. Glennie, Lymphoma Research Unit, Tenovus Laboratory, General Hospital, Southampton SO16 6YD United Kingdom  
AUTHOR EMAIL: M.J.Glennie@soton.ac.uk

CD40 is essential in enabling antigen-presenting cells to process and present antigen effectively to T cells. We demonstrate here that when antibody against CD40 is used to treat mice with syngeneic lymphoma, a rapid cytotoxic T-cell response independent of T-helper cells occurs, with tenfold expansion of CD8sup + T cells over a period of 5 days. This response eradicates the lymphoma and provides protection against tumor rechallenge without further **antibody** treatment. Thus, it seems that by treating mice with monoclonal **antibody** against **CD40**, we are immunizing against syngeneic tumors. The phenomenon proved reproducible with two **antibodies** against **CD40** (3/23 and FGK-45) in three CD40sup + lymphomas (A20, A31 and BCLinf~~4~~) and gave partial protection in one of two CD40sup - lymphomas (EL4 and Ten1). Although the nature of the target antigens on these lymphomas is unknown, CD8sup + T cells recovered from responding mice showed powerful cytotoxic activity against the target B- cell lymphoma in vitro.

```
? s (cd40)(10n)(antibod?)(dendritic)
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            0 ANTIBOD?)(DENDRITIC)
      S3      0 (CD40)(10N)(ANTIBOD?)(DENDRITIC)
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      1445964 ANTIBOD?
      80316 DENDRITIC
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...completed examining records
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Processing
Processing
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      39951254 PY<2000
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